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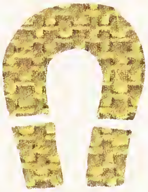
CONTENTS

		Pages
Unit 1	**Food for Animals and You**	**6–31**
	Animals need food	8–9
	Food from plants	10–13
	Food from other animals	14–15
	Food chains	16–17
	Helping animals get food	18–19
	You need food	20–21
	Eating food from plants	22–23
	Eating food from animals	24–27
	People and food chains	28–29
	End-of-Unit Features	30–31
Unit 2	**Environment**	**32–63**
	Your environment	34–35
	Places in your environment	36–37
	People in your environment	38–41
	Animals and plants in your environment	42–45
	Sound and light in your environment	46–49
	Air, water, and food in your environment	50–51
	Weather in your environment	52–53
	Changes in your environment	54–55
	Plants and their environment	56–59
	Animals and their environment	60–61
	End-of-Unit Features	62–63

Pages

Unit 3 Measuring 64–95

Measuring things 66–69
Measuring length 70–73
Centimetres 74–77
Decimetres 78–81
Metres 82–85
Measuring how much 86–89
Measuring how heavy 90–93
End-of-Unit Features 94–95



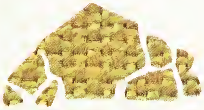
Unit 4 Magnets 96–127

Kinds of magnets 98–99
Picking things up with magnets 100–103
Magnets sticking to things 104–105
Strong and weak magnets 106–109
Strong parts of magnets 110–111
Magnets pulling through things 112–113
Uses of magnets 114–117
Magnets sticking together 118–119
Magnets pushing away 120–121
Making magnets 122–123
Chains of magnets 124–125
End-of-Unit Features 126–127

Pages

Unit 5 The Moon 128–159

The moon at night 130
The moon during the day 131
Moonlight 132–133
Rising and setting of the moon 134–135
Path of the moon 136–137
Shapes of the moon 138–143
Seeing one side of the moon 144–145
The moon's surface 146–147
The moon and the earth 148–149
People on the moon 150–151
Maps of the moon 152–153
Other things in space 154–157
End-of-Unit Features 158–159

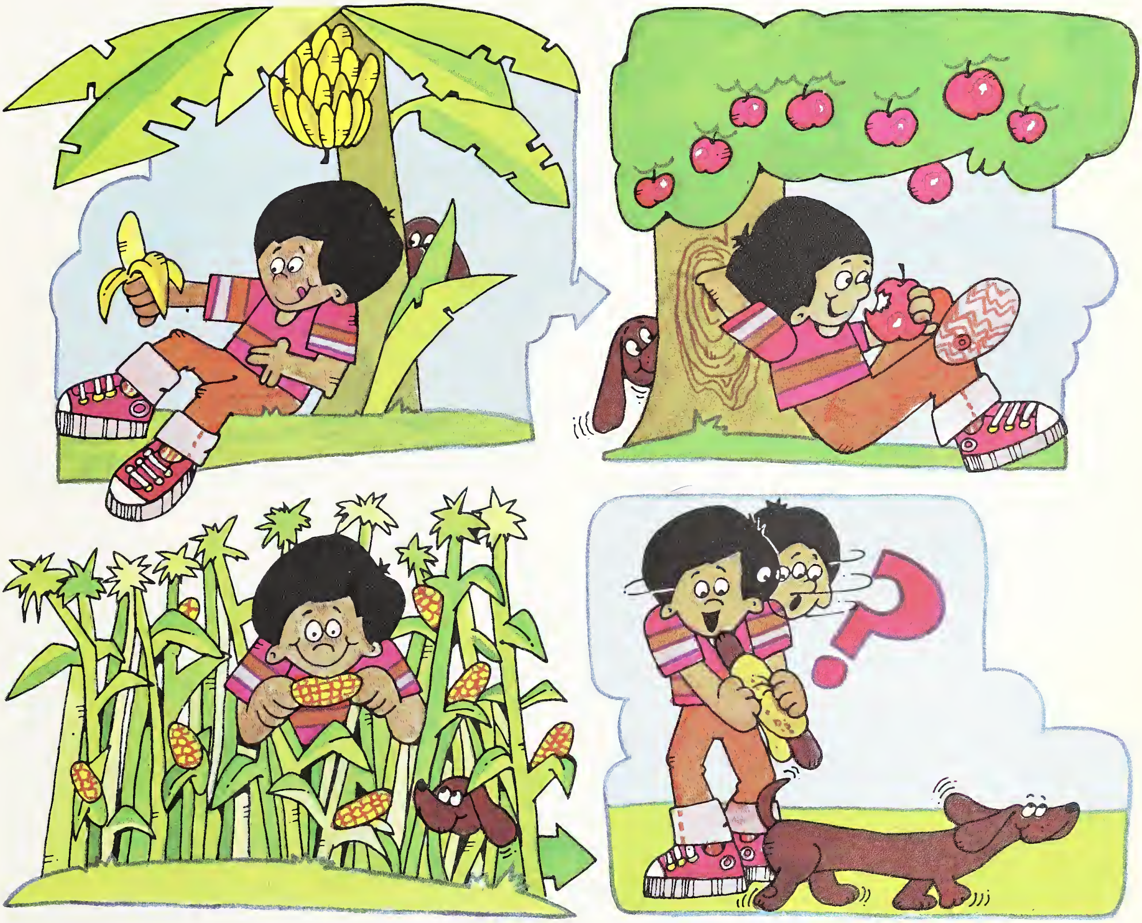


Unit 6 Rocks and Soil 160–189

Finding rocks 162–165
How rocks are different 166–167
Changes in rocks 168–171
Using rocks 172–173
What soil is made of 174–177
Finding soil 178–181
Soil and living things 182–183
Taking care of soil 184–187
End-of-Unit Features 188–189

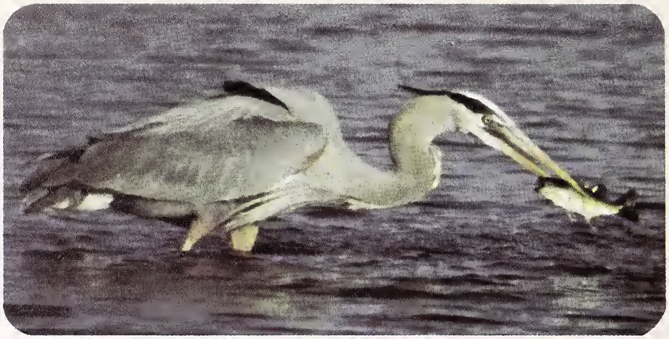
Some Science Words to Know 190–191

1 Food for Animals and You

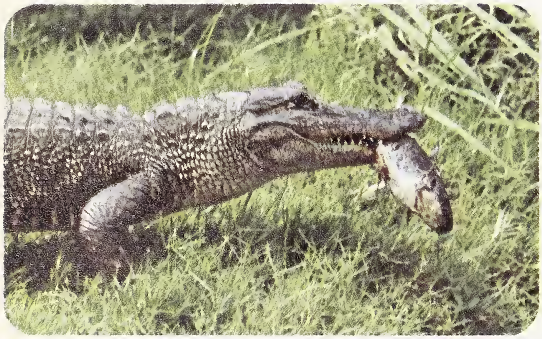


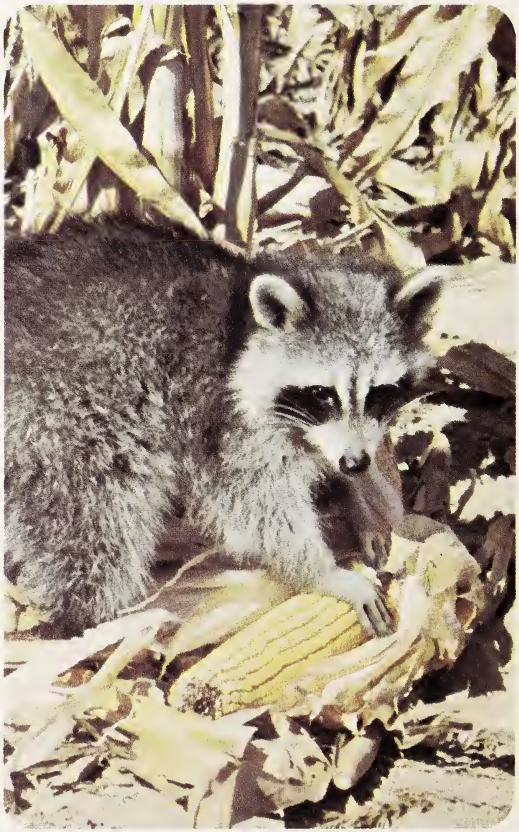
Where did Bob get his food?

Where does your food come from?

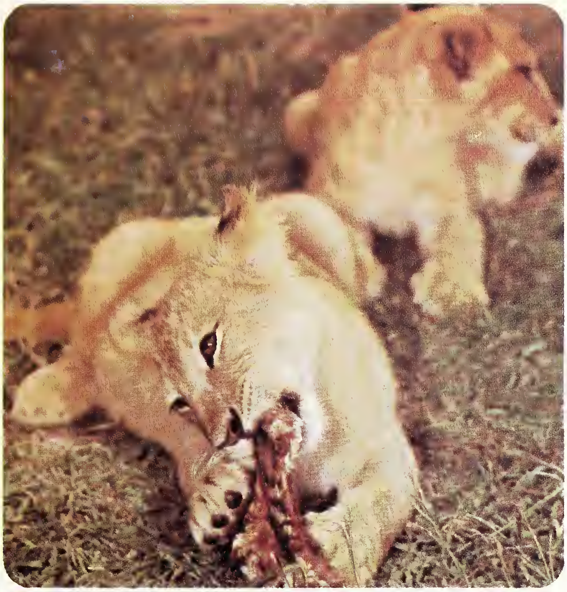


Animals need food



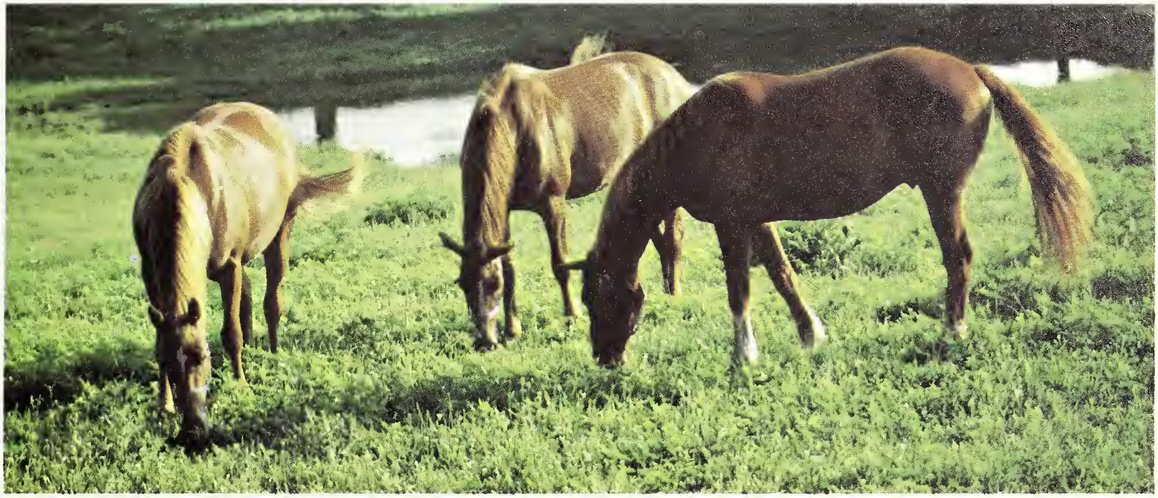


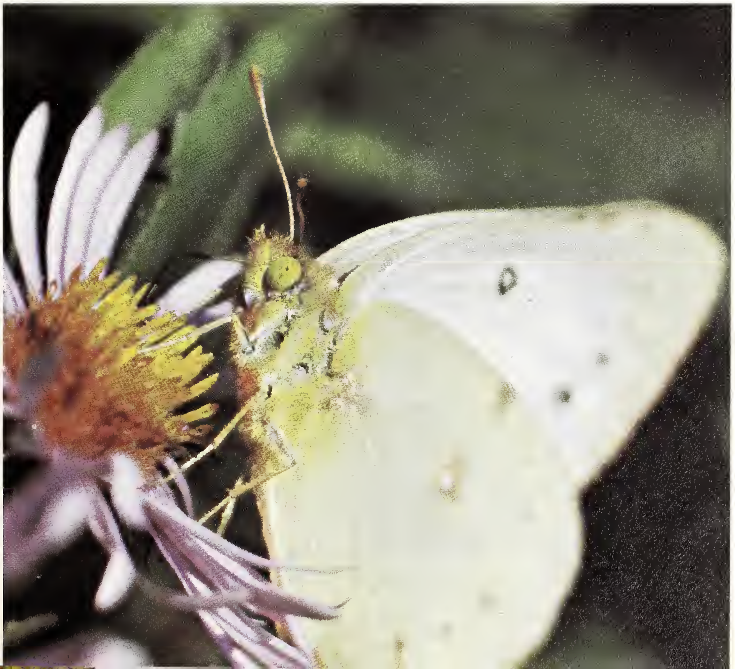
What food are these animals eating?



Why do you think animals need food?

Food from plants





What food are these animals eating?

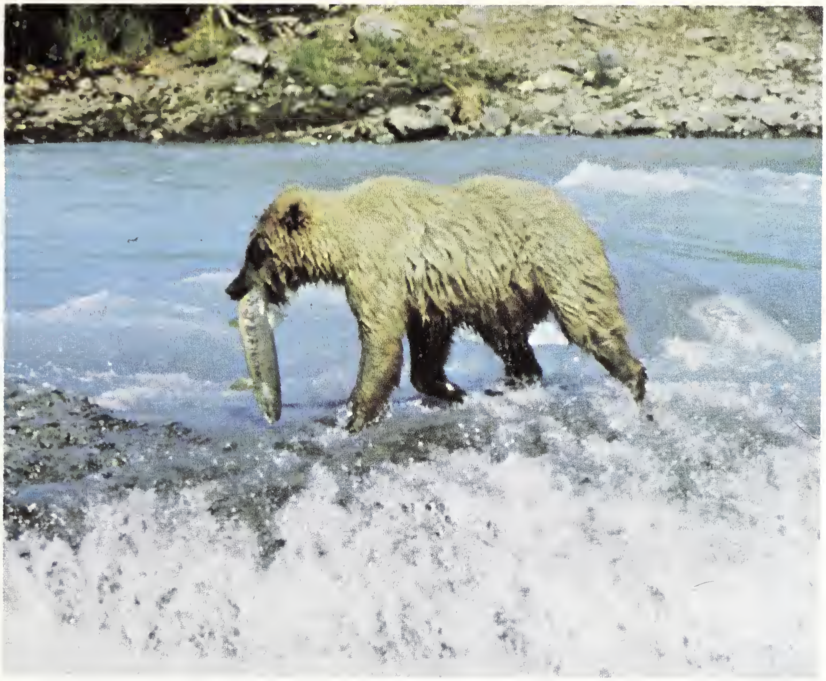
FINDING OUT

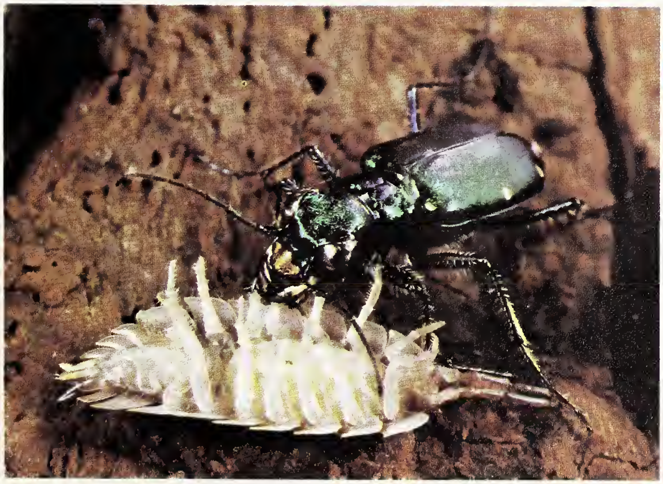
- Find or draw pictures of some plants.
- Find or draw pictures of some animals.

Match the animal with the plant it eats.

What other animals have you seen eating food from plants?

Food from other animals

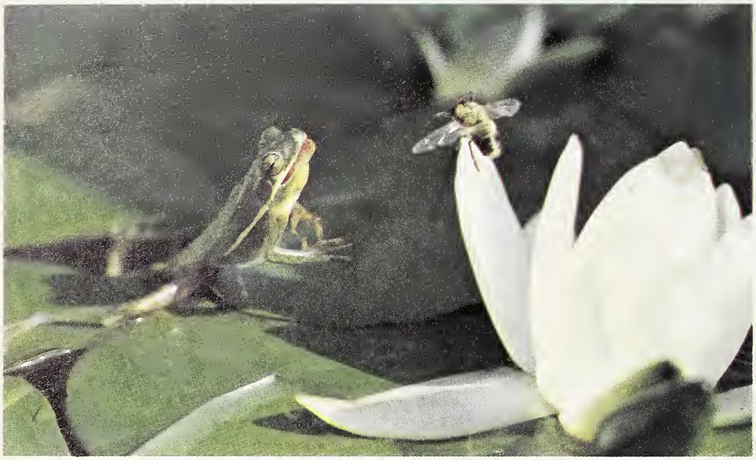


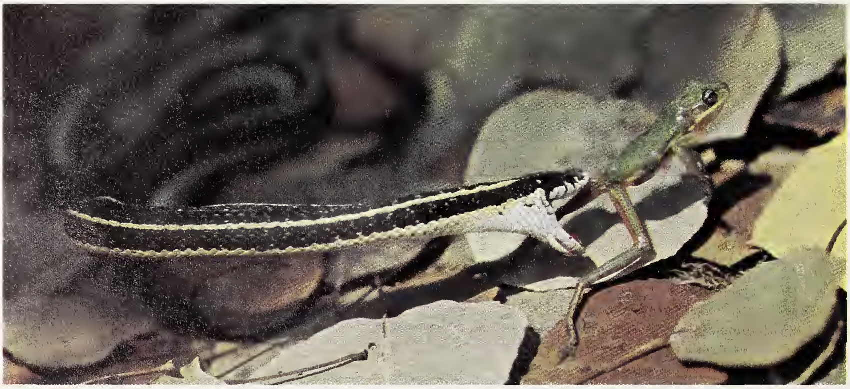


What food are these animals eating?

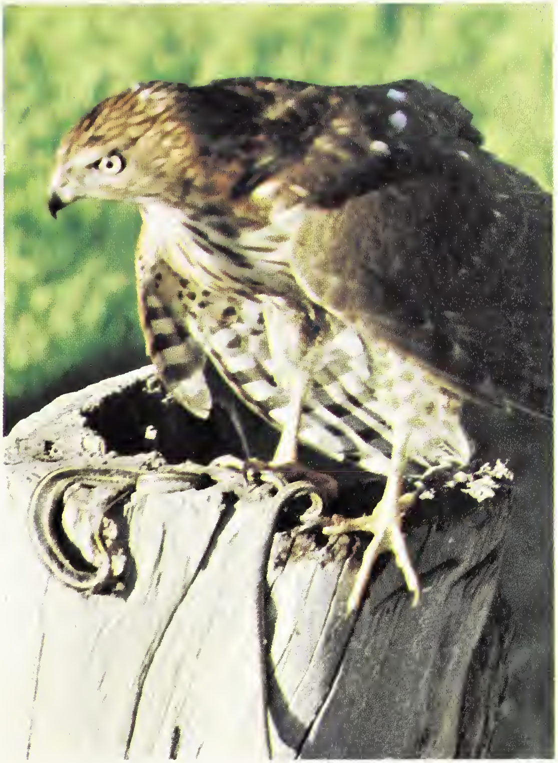
What other animals catch animals for food?

Food chains



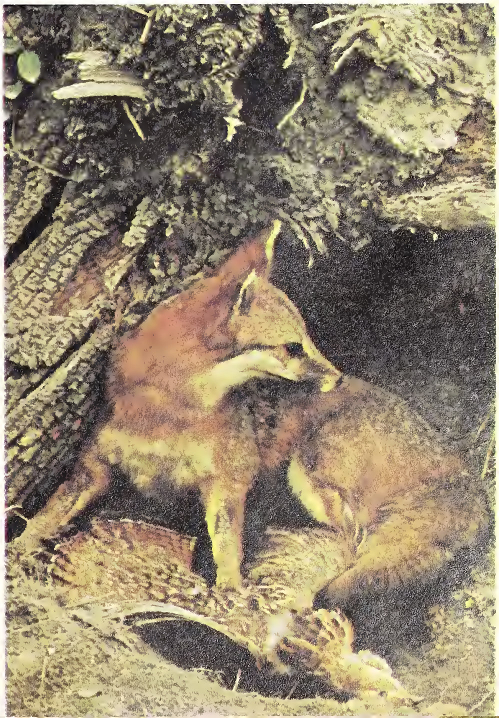


Look at the pictures on these pages.
What do they show about food for animals?

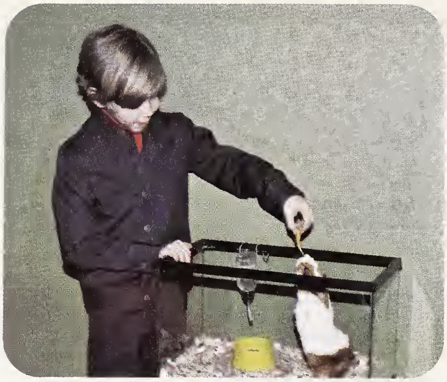


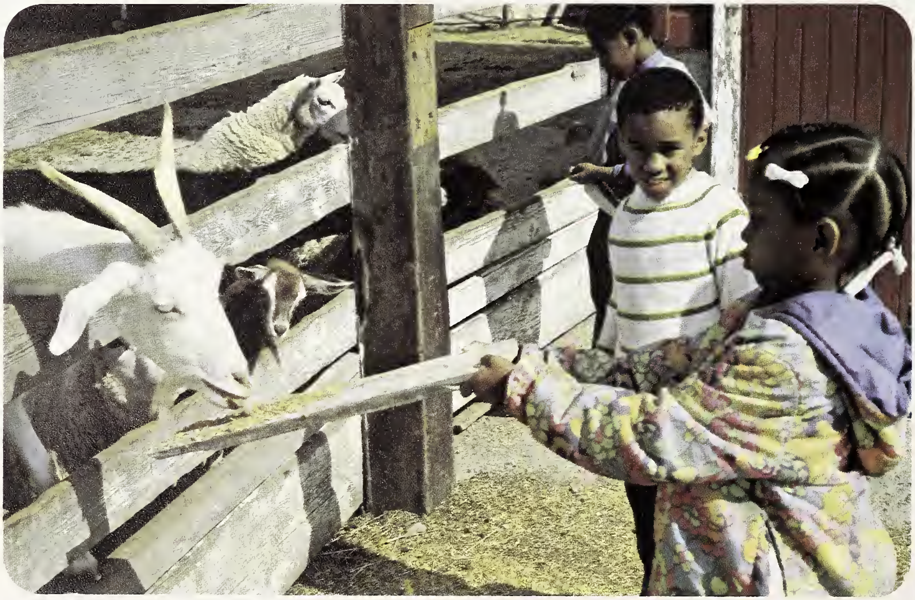
This is a food chain in nature.

What are some other food chains in nature?



Helping animals get food



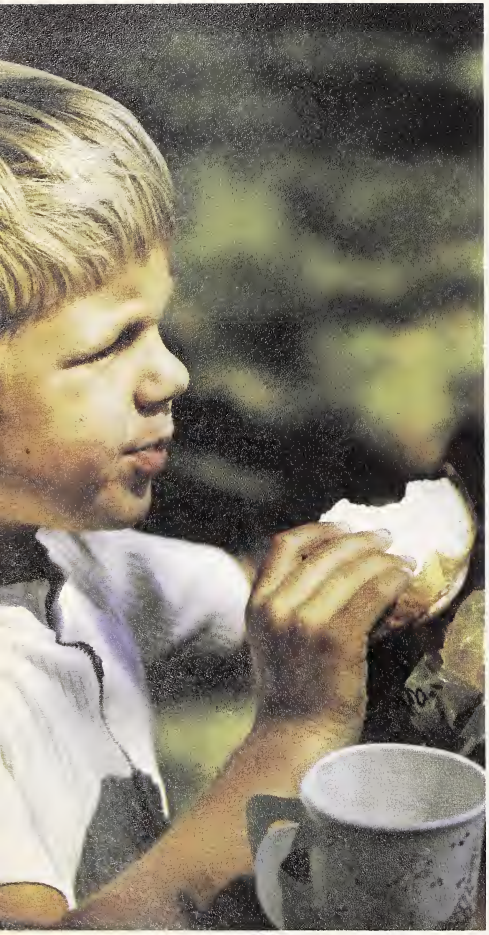


Why do you think people must help these animals get their food?

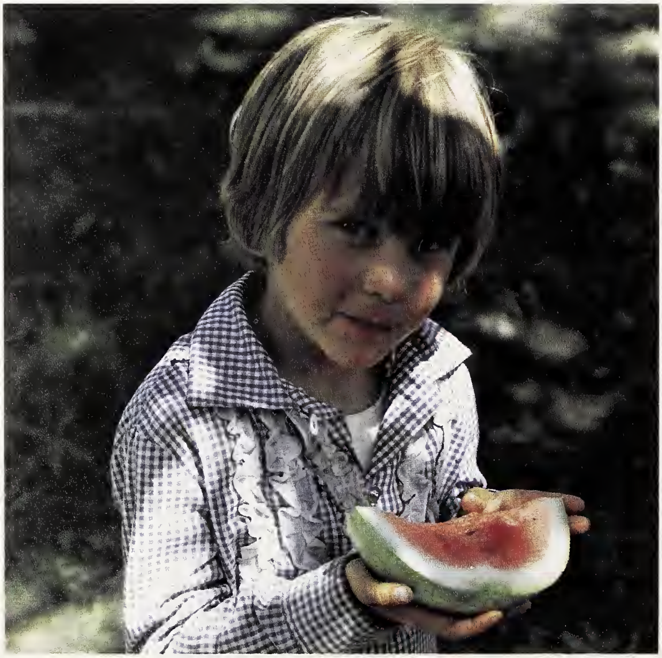
FINDING OUT

- Get some paper.
- Draw the animals that need each food.

What other animals may need people to help them get their food?



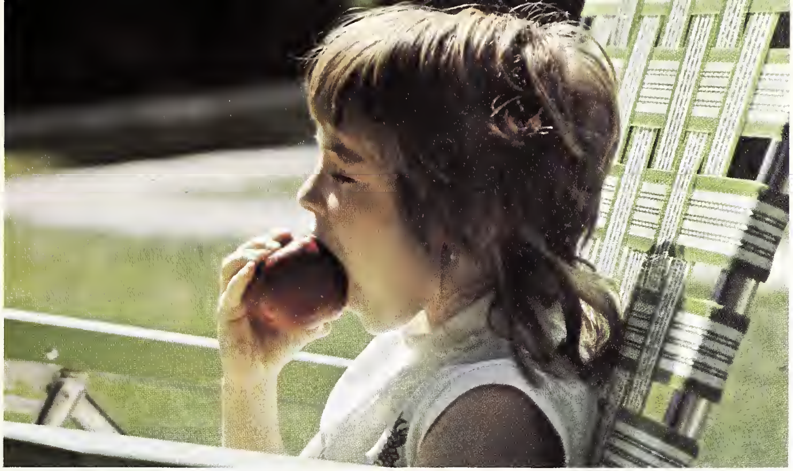
You need food

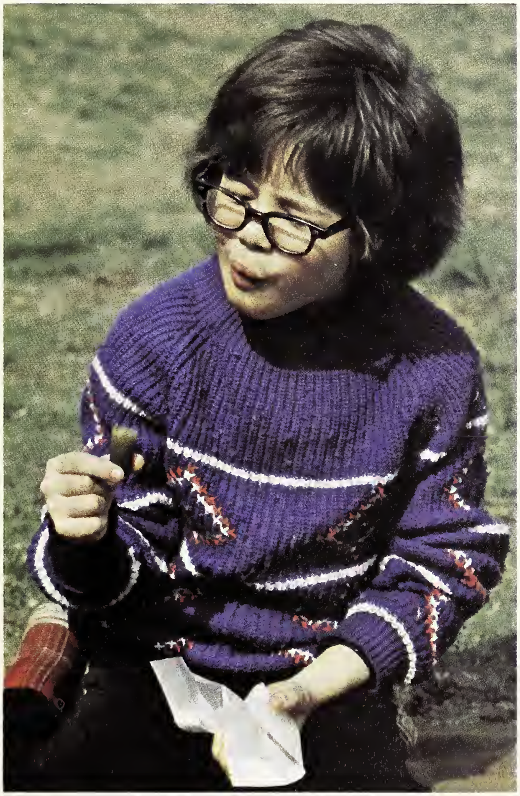


What food are these people eating?

Why do you think you need food?

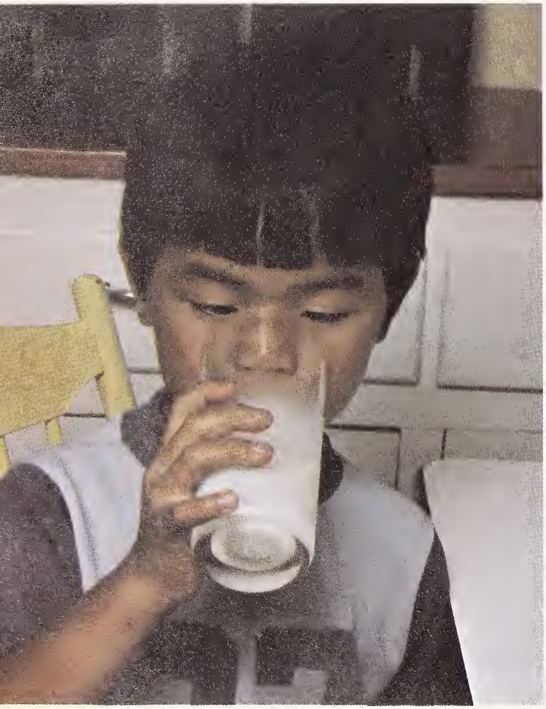
Eating food from plants



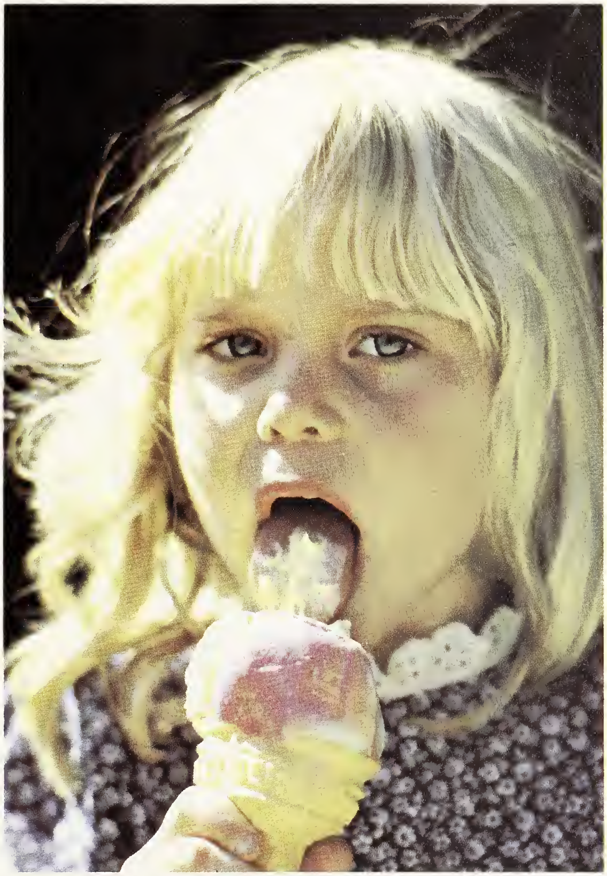


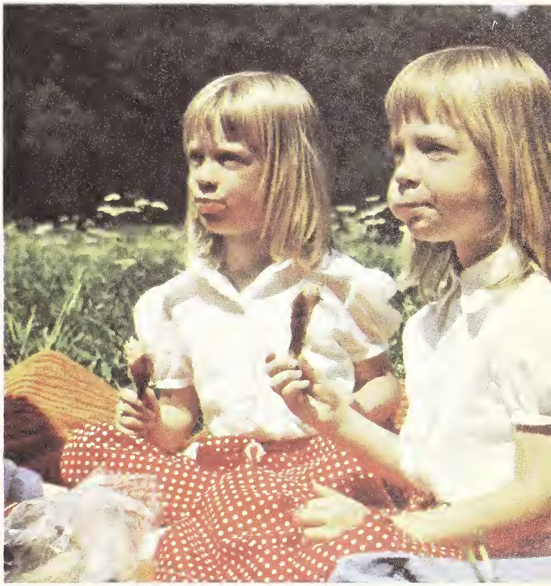
What food from plants are these people eating?

What food from plants do you like to eat?



Eating food from animals

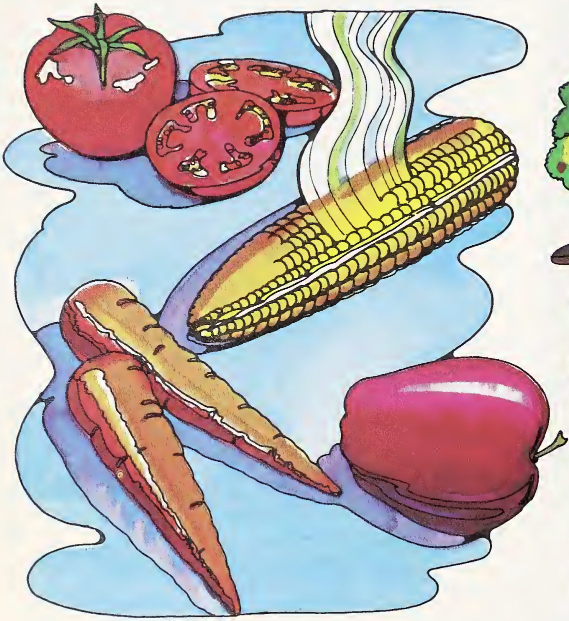


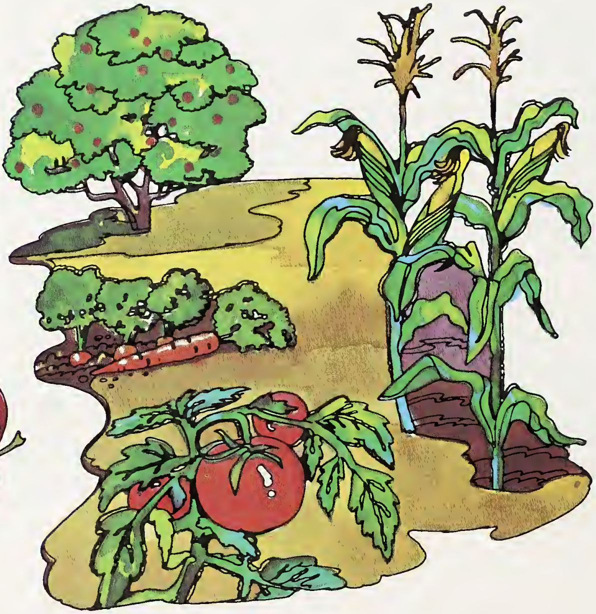


What food from animals
are these people eating?
What animal gives us
each food?

FINDING OUT

- Match each food with the plant it comes from.



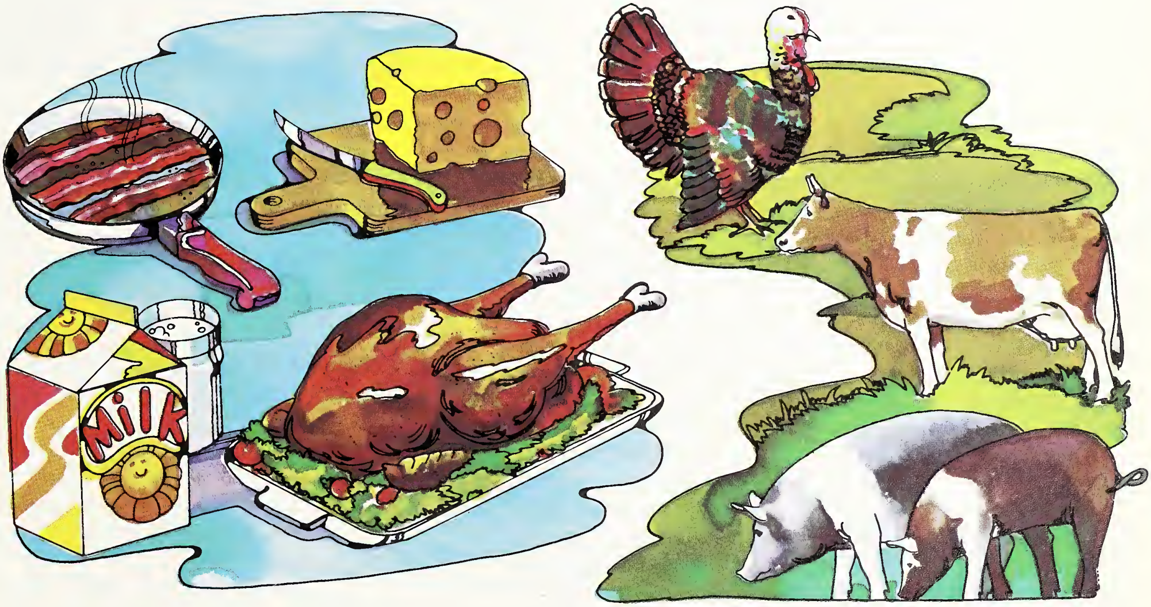


- Find or draw other pictures of food from plants.

Where can people get food from plants?

FINDING OUT

Match each food with the animal it comes from.



Find or draw other pictures of food from animals.

Where can people get food from animals?

People and food chains

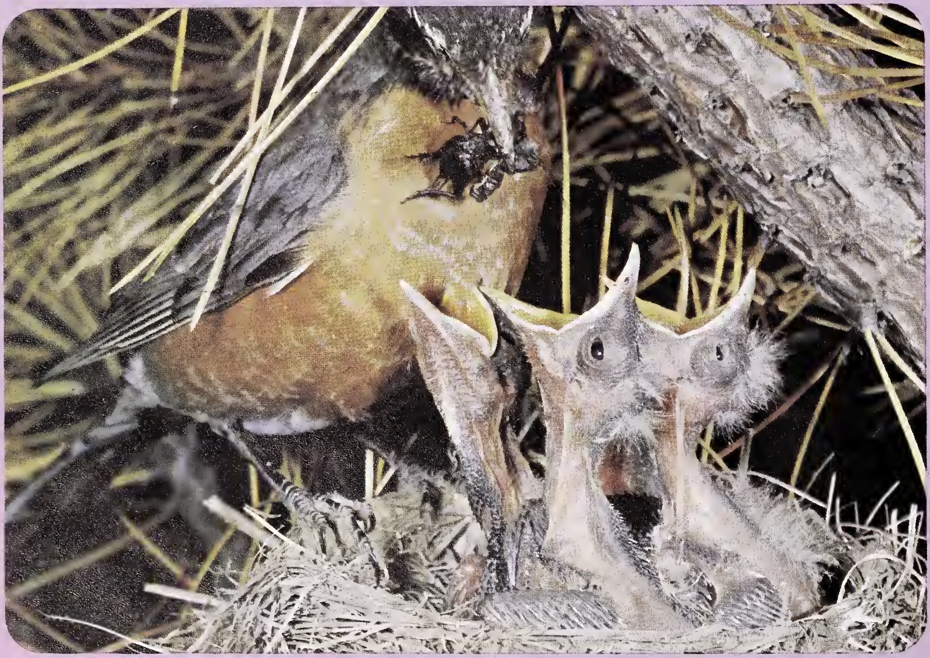
Look at the pictures on these pages. What do they show about food for people?

This is a farm food chain.
What are some other
farm food chains?

Words to Know

food
food chain
plant
nature
animal
farm

Picture to Think About



What is happening in this picture? Why?

Questions to Answer

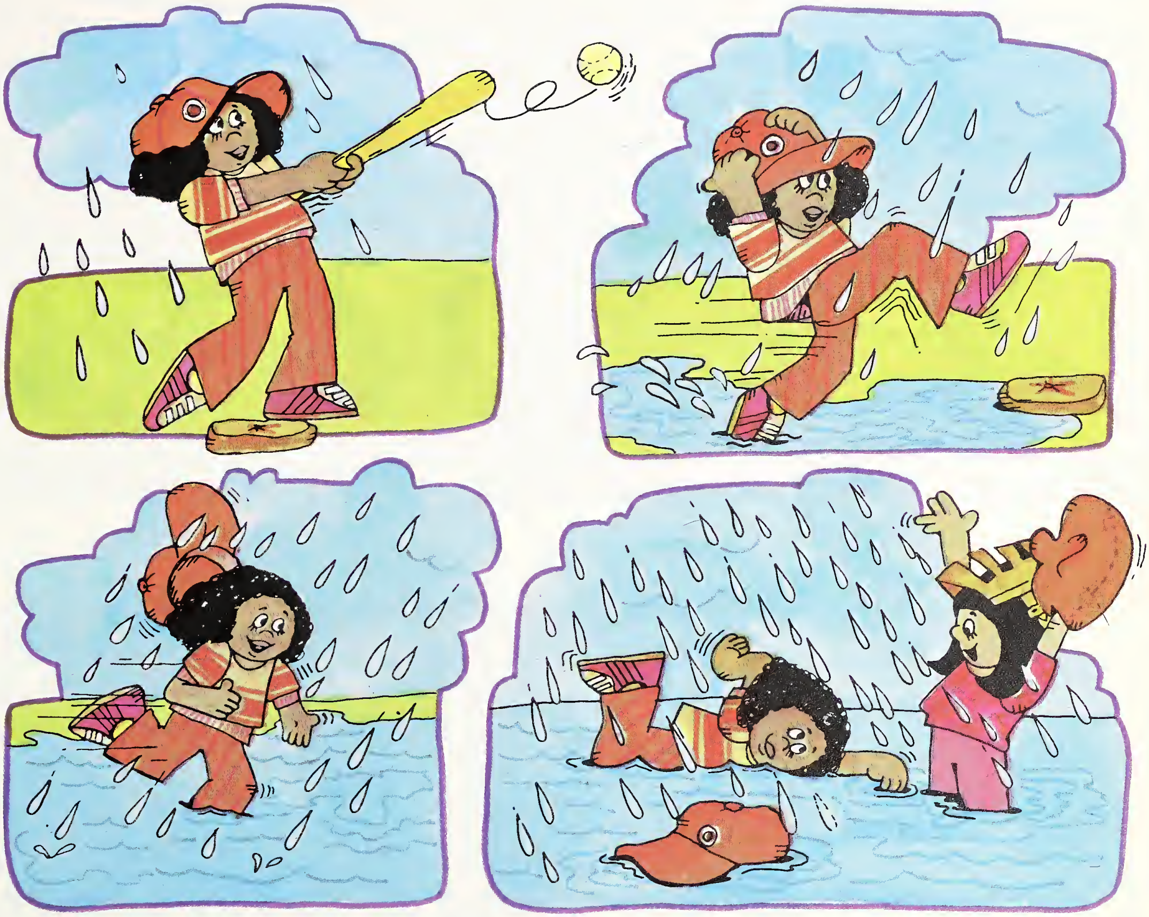
1. Where do animals get their food?
2. What food from plants do you eat?
3. What food from animals do you eat?

Fun Things to Do

Draw pictures of animals.
Show them eating the food
they like to eat.

Plant a garden.
Grow the plants
you like to eat.

2 Environment



How did things around Dee change?

What things around you change?

Your environment

What are some things
around these children?

Everything around these children
makes up their environment.

What are some things
that make up your environment?

Places in your environment

What places help make up these children's environment?

Are these parts of their environment important to the children? If so, how?

FINDING OUT

► Find or draw pictures
of some places in your environment.

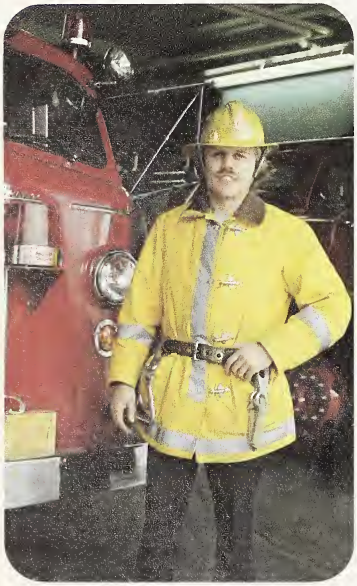
What things do you do
when you are in these places?

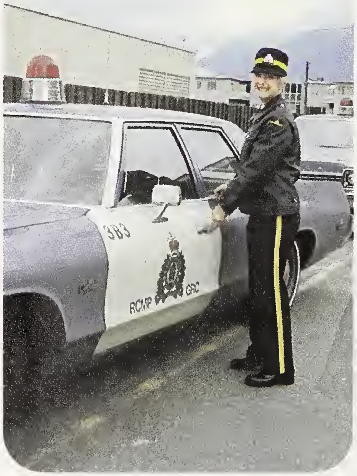
People in your environment

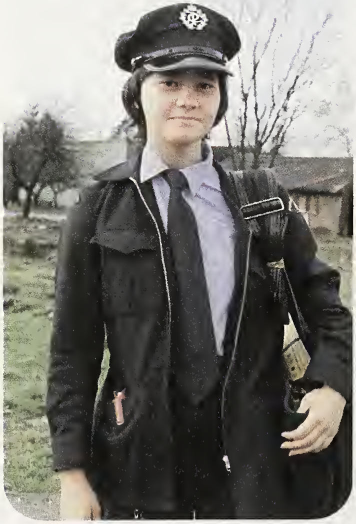
Who are the people
in these children's environment?
Are these people important
to the children? If so, how?

FINDING OUT

- Tell who these people are.
- Point to the places on the next page where you might find these people.







Are these people important in your environment? If so, how?

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Animals and plants in your environment

What are some animals in your environment?

Where do some plants grow in your environment?

How do animals and plants make you feel?

Are you important to some animals or plants? Why?

FINDING OUT

- Draw a circle on the ground.

- Look at things in the circle for about 15 minutes.

► Draw a picture of some things you saw.

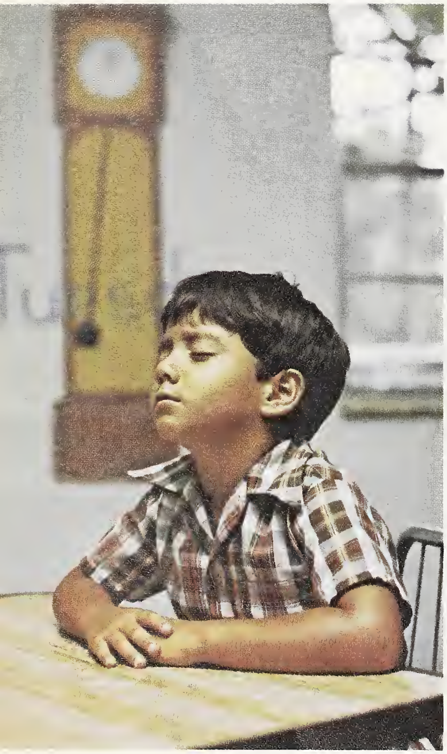
How are the things
you saw different?
How are they alike?

Sound and light in your environment

How is sound helpful to you?

How is light helpful to you?

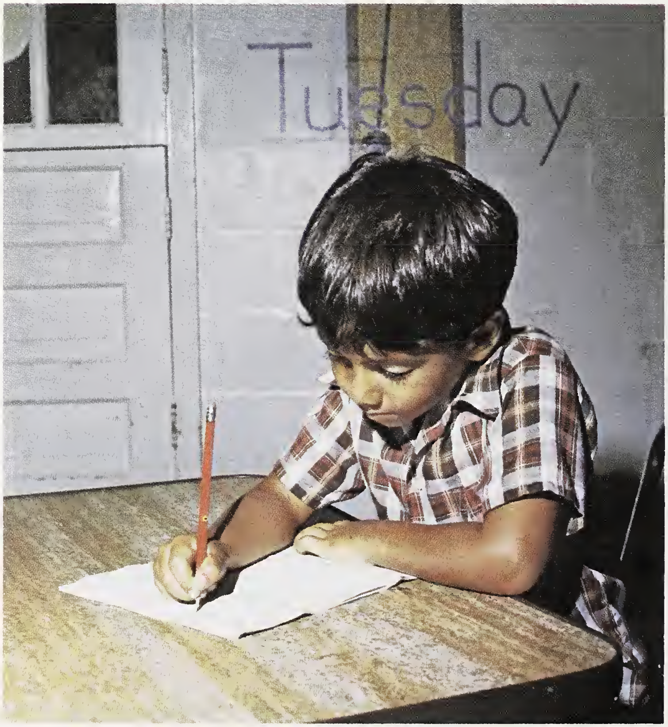
Are sounds and light always helpful? Why or why not?



FINDING OUT

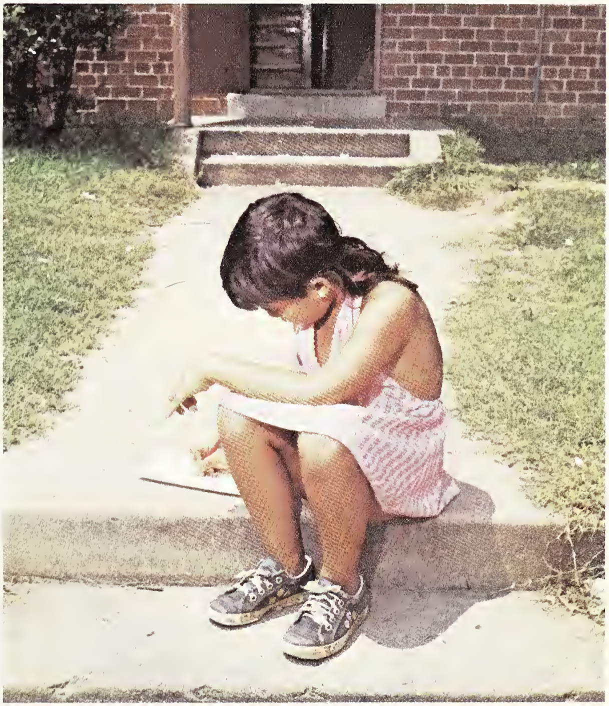
- Sit in a room and listen for sounds.

- Write the name of everything in the room that makes a sound.



► Sit outdoors and listen for sounds.

► Write the name of everything that makes a sound.



Which things made a loud sound?
Which things made a quiet sound?
Were there more sounds inside or outside? Why?

Air, water, and food in your environment

How is air important to you?
How is water important to you?
How is food important to you?

Weather in your environment

What kinds of weather make up your environment?

Does the weather help things in your environment?

If so, how?

FINDING OUT

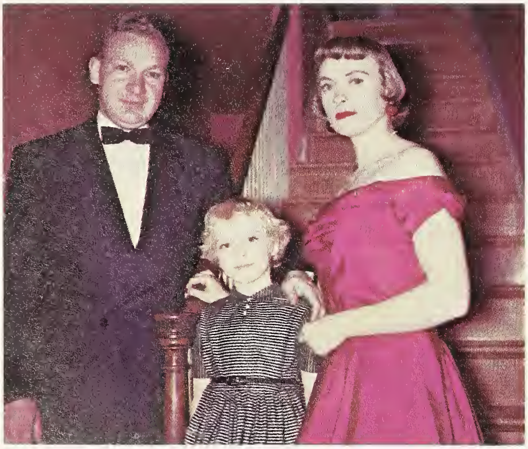
- Make a calendar and some weather pictures.

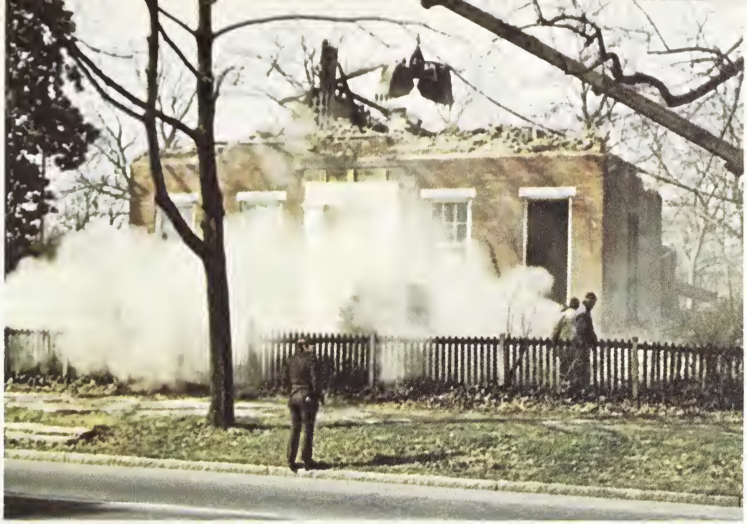
- Put the weather pictures on the calendar.

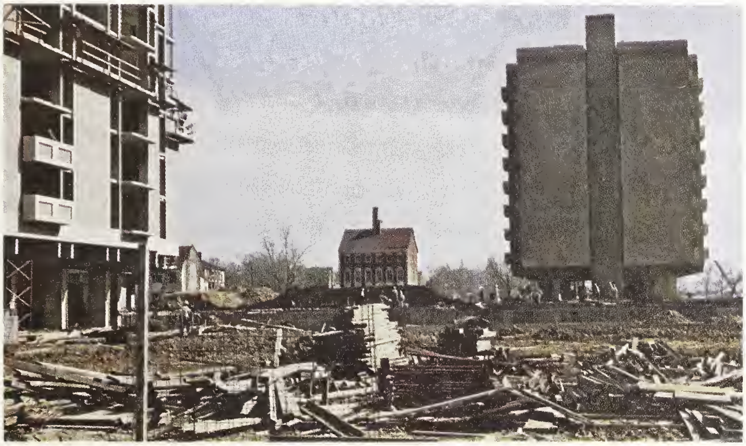
What do you do in each kind of weather?

How does each kind of weather make you feel?

Changes in your environment





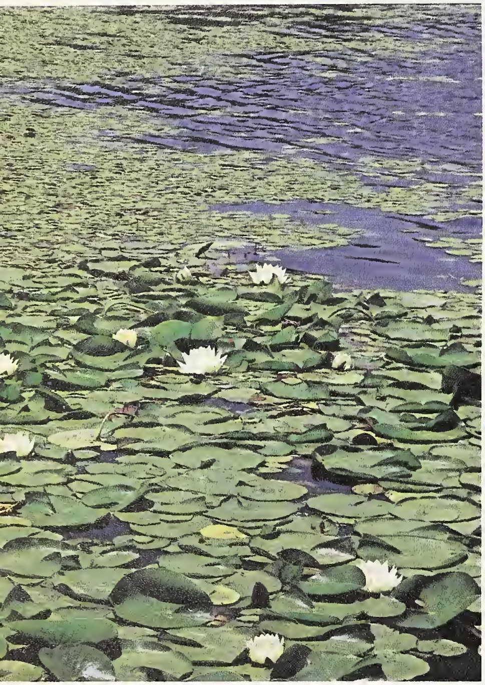


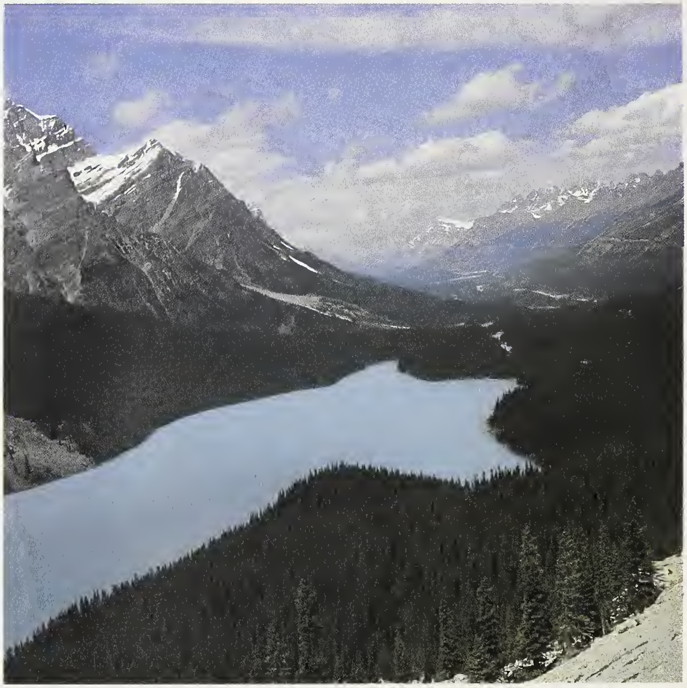
What things in these environments have changed?

How have the things changed?

What things in your environment have changed?

Plants and their environment





What things make up
these plants' environment?
How is each environment different?

FINDING OUT

► Make an environment for plants

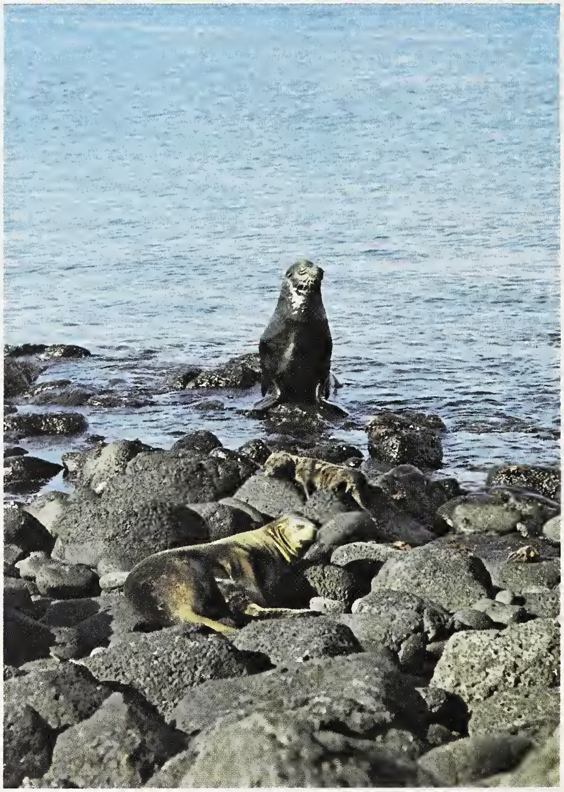
► Plant some plants.

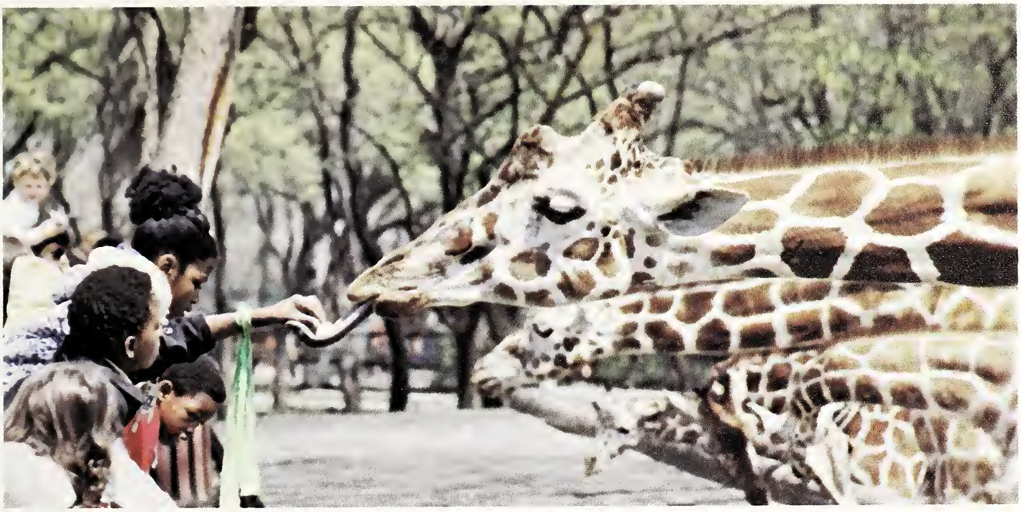
- Water the plants.

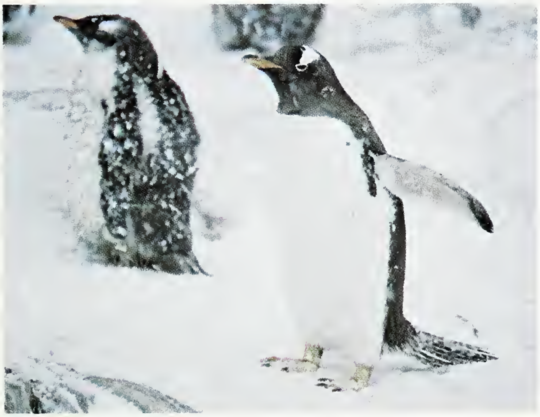
- Cover the environment with glass.
- Watch the environment for a few weeks.

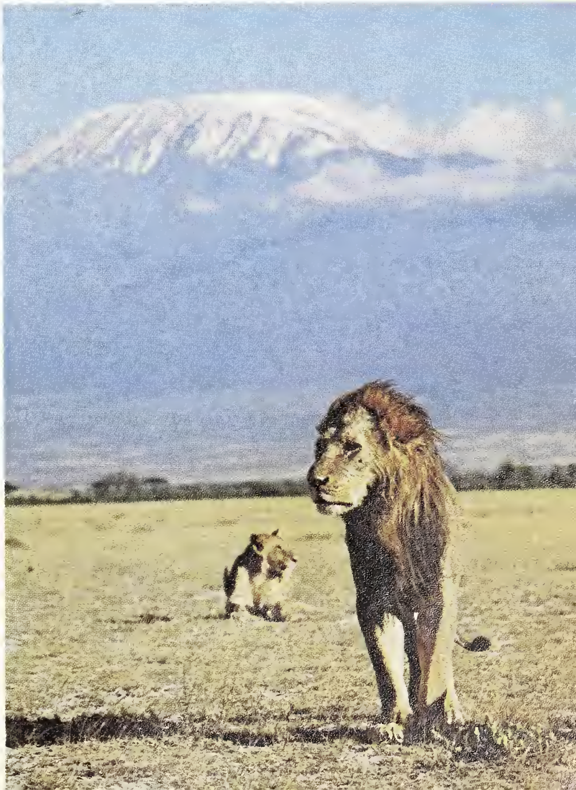
What changes in the plants
did you see?
What changes in their environment
did you see?

Animals and their environment









What are some things in these animals' environment?

How is each environment different?

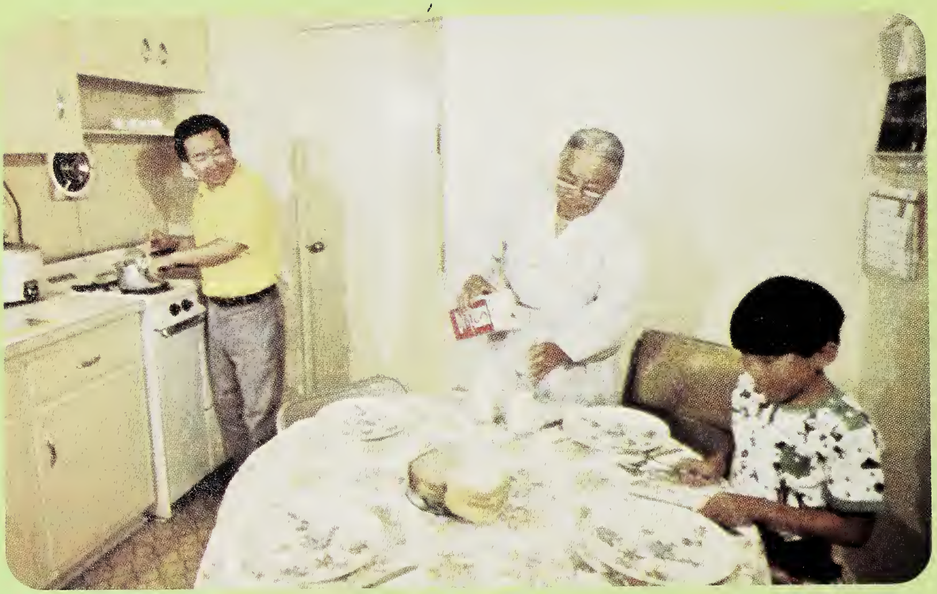
Words to Know

environment
water
food
animals

weather
air
people

sound
light
plants

Picture to Think About



In what ways is this environment important to this child?

Questions to Answer

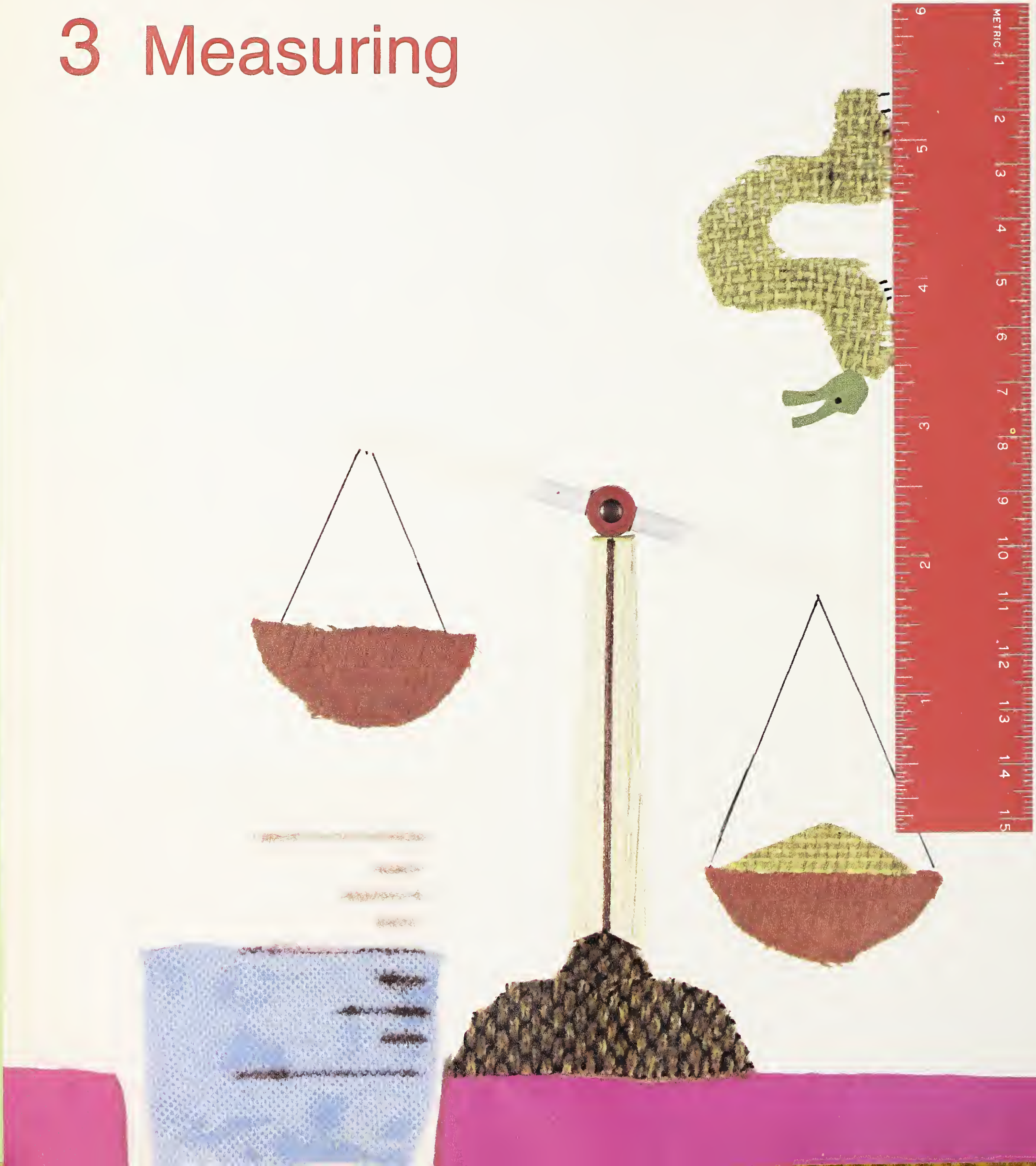
1. What is your environment?
2. What are some things in your environment?
3. What are some things in a plant's environment?
4. What are some things in an animal's environment?

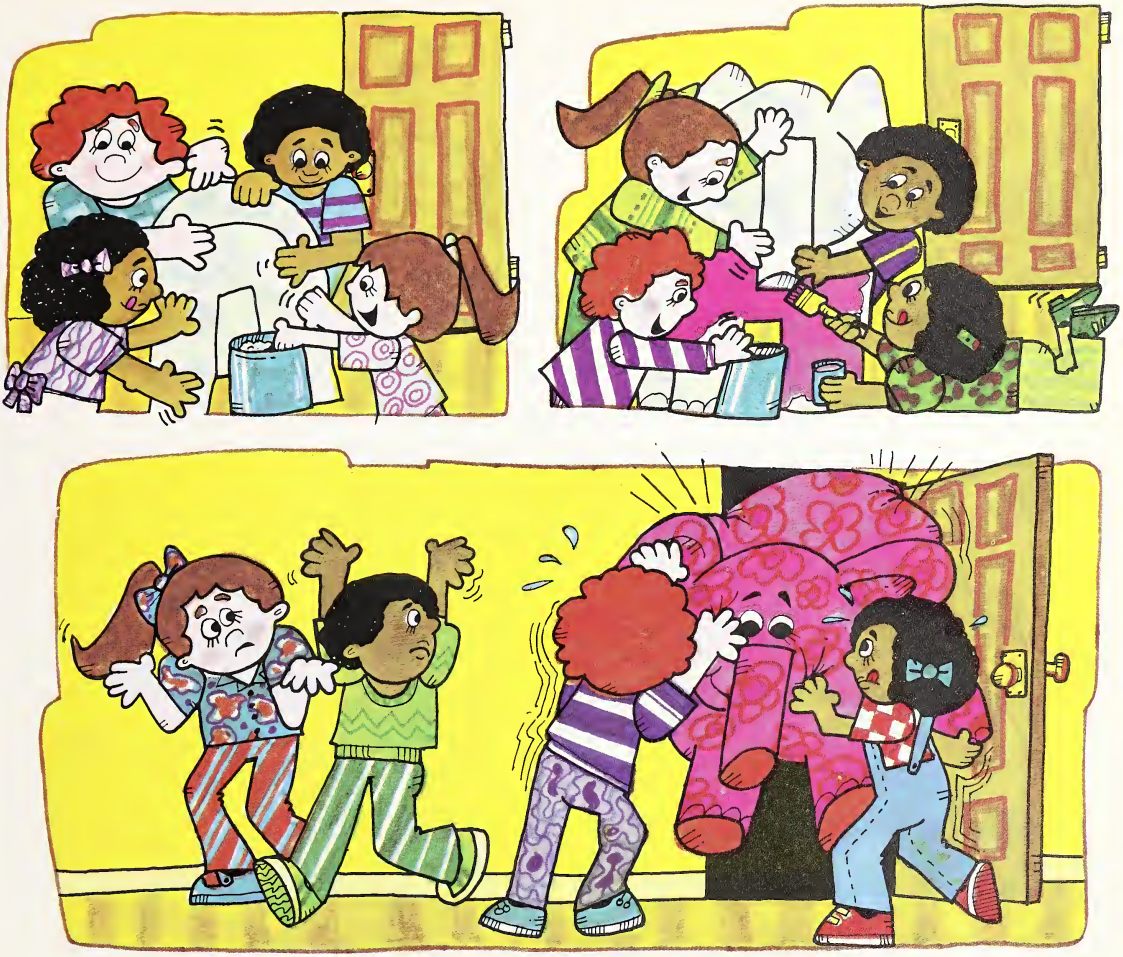
Fun Things to Do

Make up a play about people who live in an environment different from yours.

Make an environment for animals.
Put a board on the ground.
Pick up the board after about a week.
Look at the environment under the board.
What animals can you find?

3 Measuring





Why couldn’t the children push the elephant through the doorway?

How could the children have made sure it would go through?

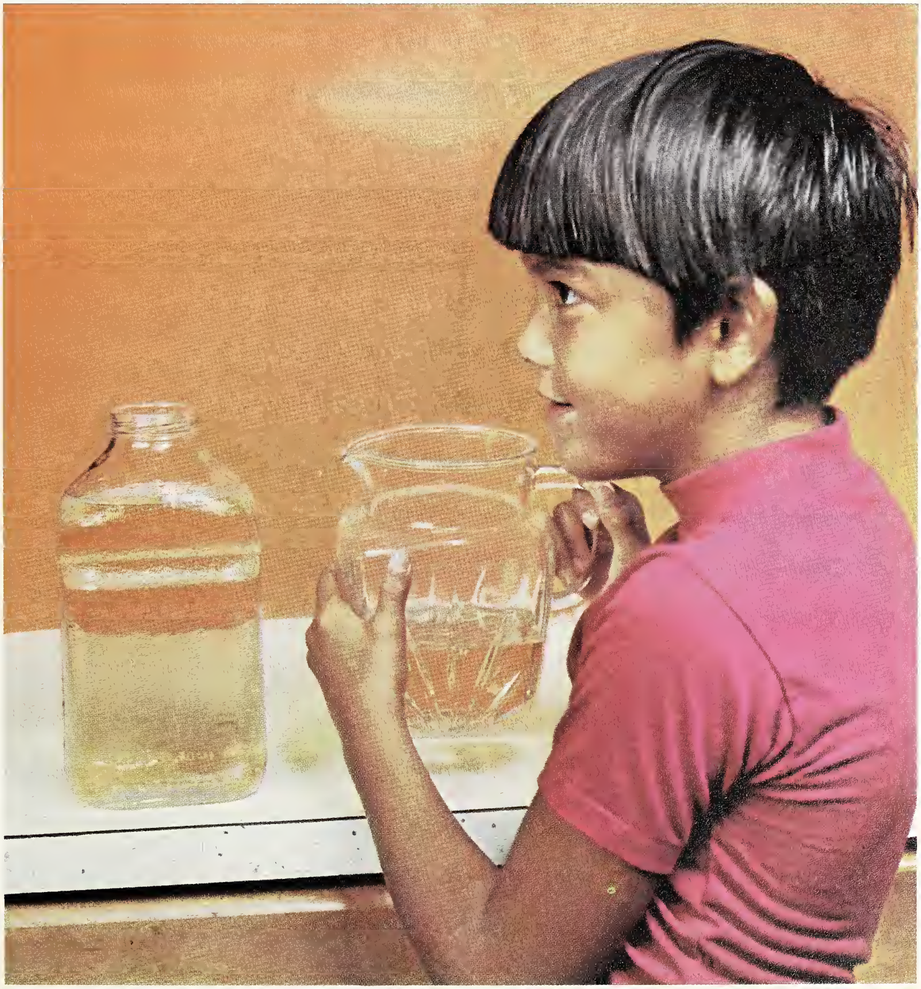
Measuring things

How can the children find out how tall they are?

How can they find out how heavy something is?

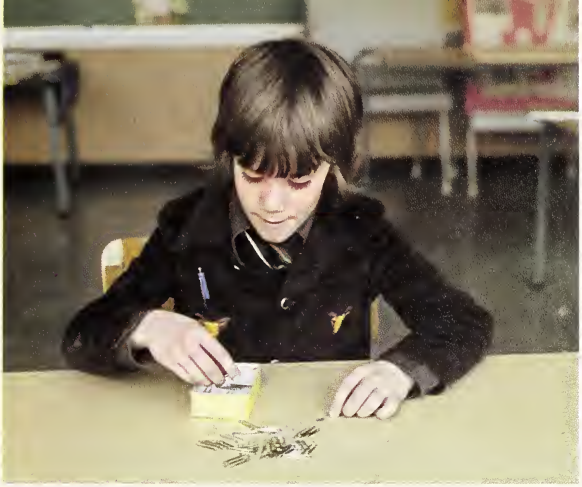
How can the boy find out how much water the jar holds?

When would you want to measure something?

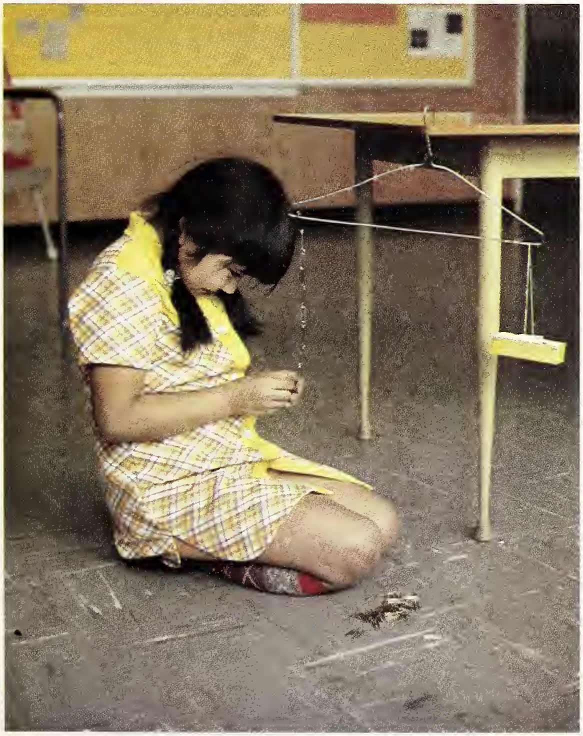


FINDING OUT

► Find out how many paper clips long a small box is.



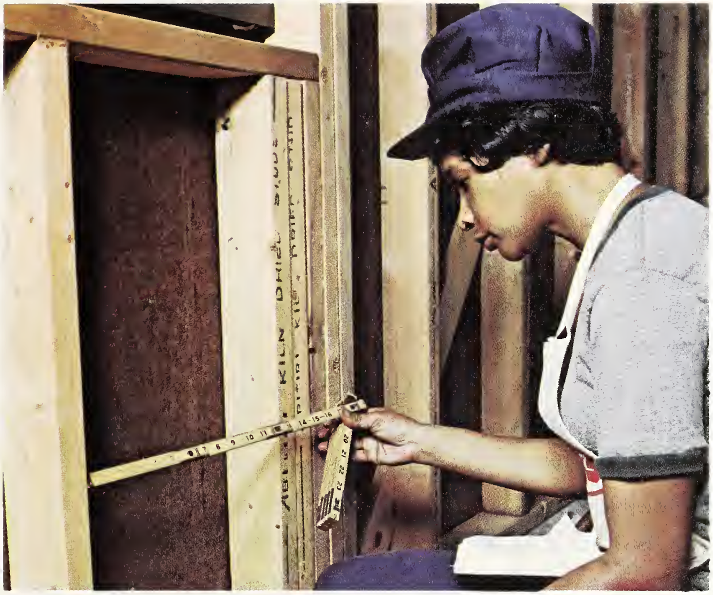
► Find out how many paper clips it can hold.

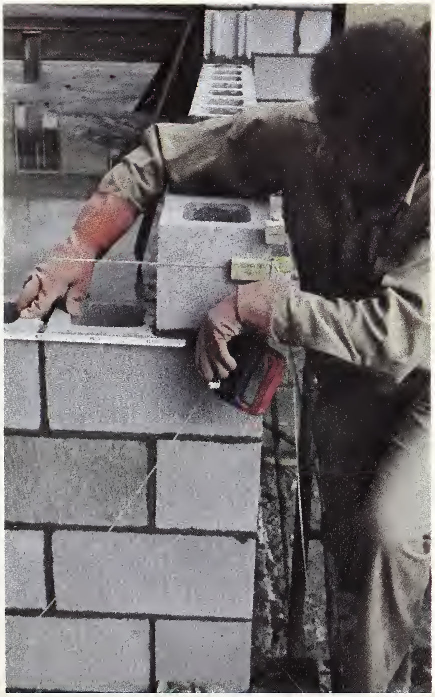


► Find out how many paper clips it weighs.

How long is the box?
How much can it hold?
How heavy is it?

Measuring length





What are these people measuring? Why?

What things would you want to measure the length of?

FINDING OUT

- Have about 5 people measure a room with their feet.

► Have the people measure the room with measuring sticks that are the same length.

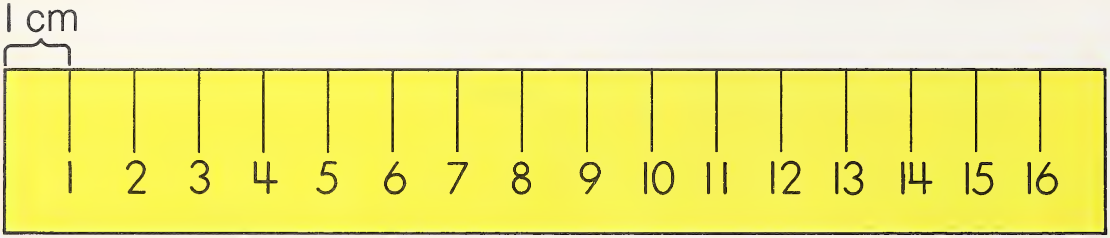
About how many "feet" long is the room?

About how many measuring sticks long is the room?

Do you think a measuring stick is important? Why?

Centimetres

The symbol for centimetre is cm. One centimetre = 1 cm.

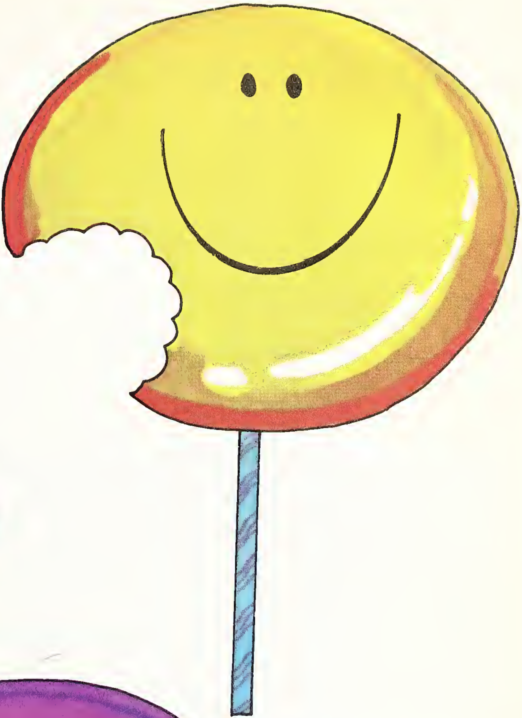


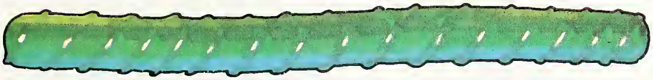
What are these children finding out by measuring in centimetres?

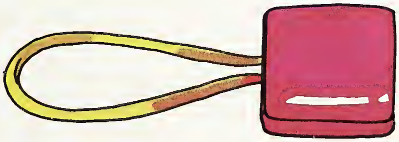
What would you want to measure in centimetres? Why?

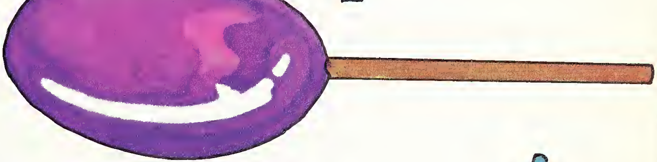
FINDING OUT

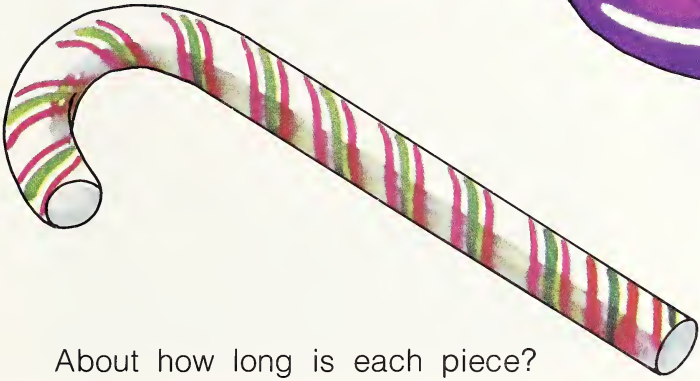
- Draw lines on a piece of paper to show centimetres.
- Use the picture on page 74 to help you.
- Measure how long the candy is.



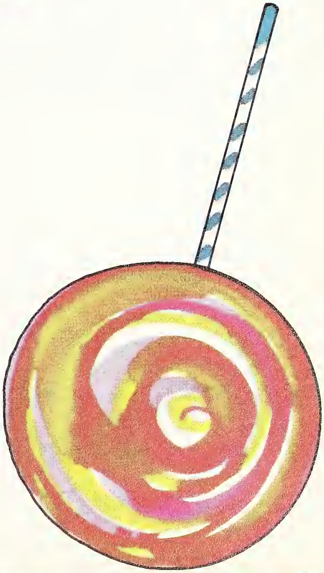








About how long is each piece?
About how wide is each piece?



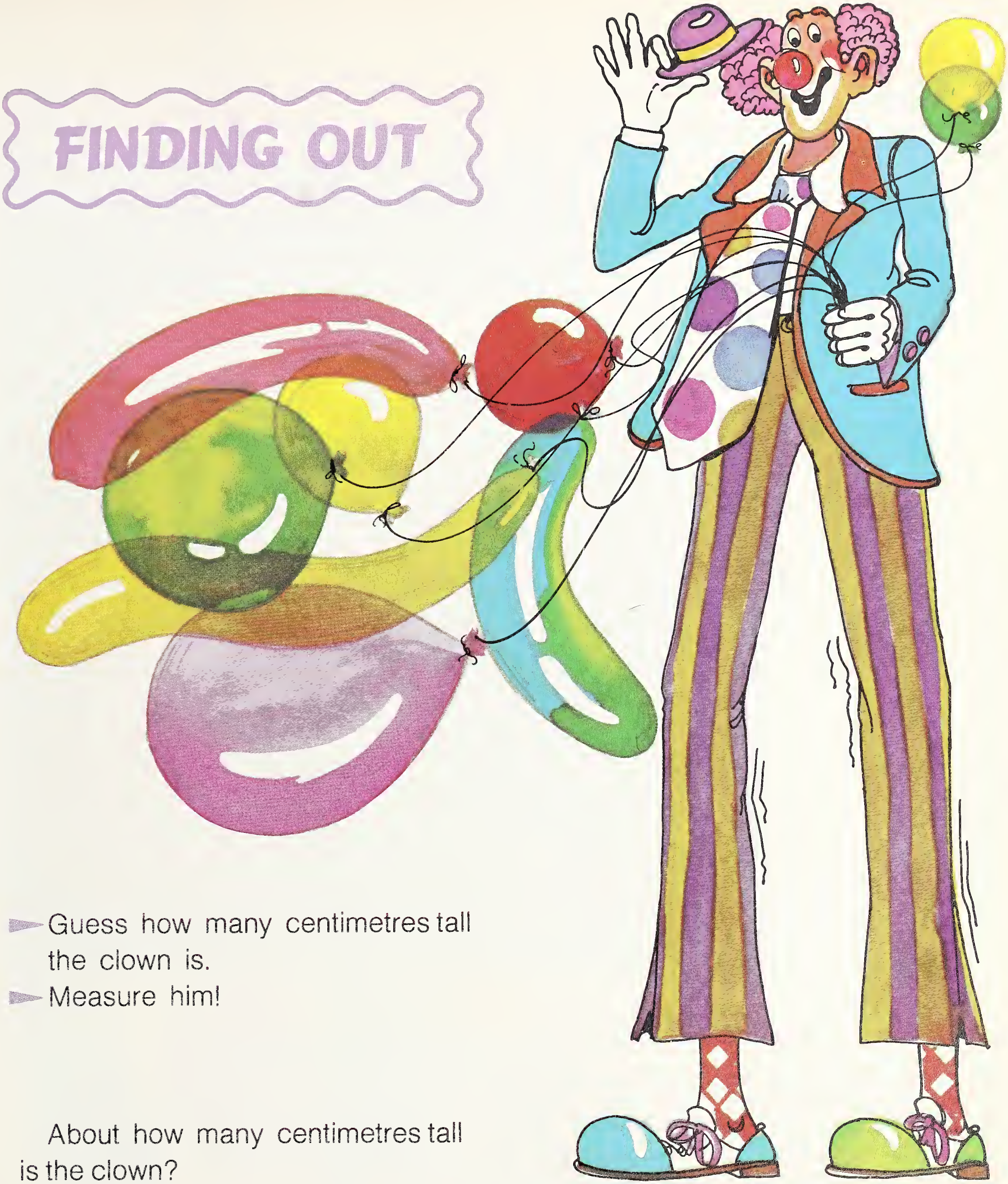
Practice using centimetres

Try the following activities to practise measuring in centimetres.

What are these children finding out?

Measure things around your home in centimetres.

FINDING OUT



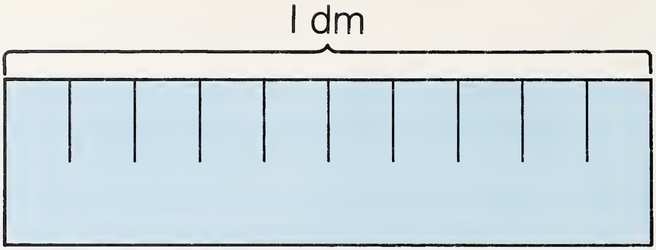
- Guess how many centimetres tall the clown is.
- Measure him!

About how many centimetres tall is the clown?

Decimetres

The symbol for decimetre is dm.

One decimetre = 1 dm

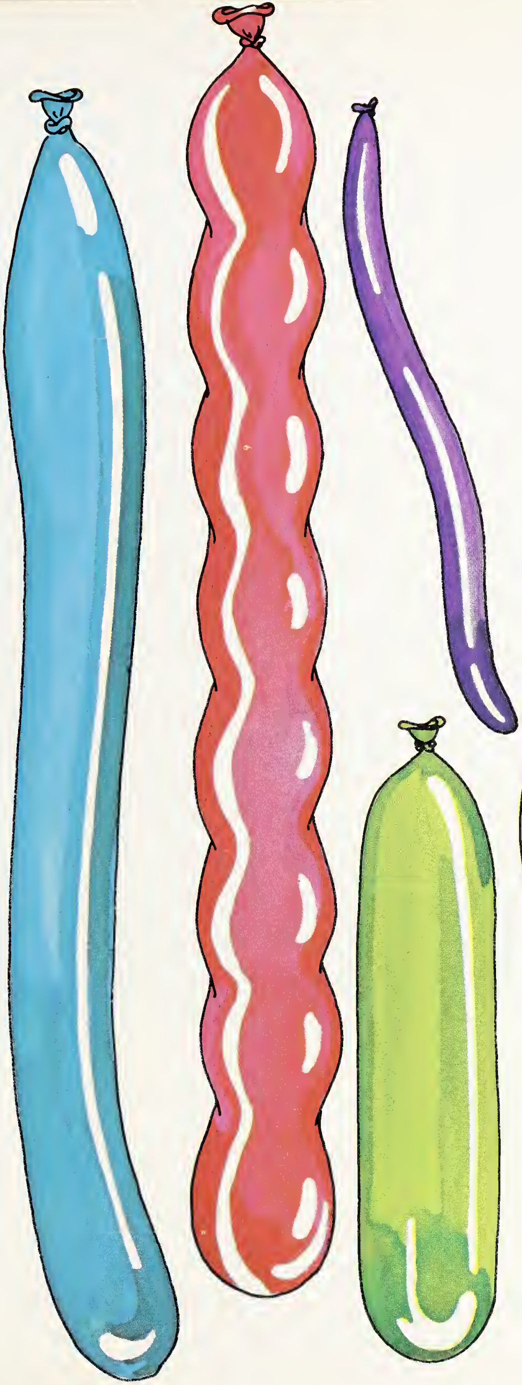


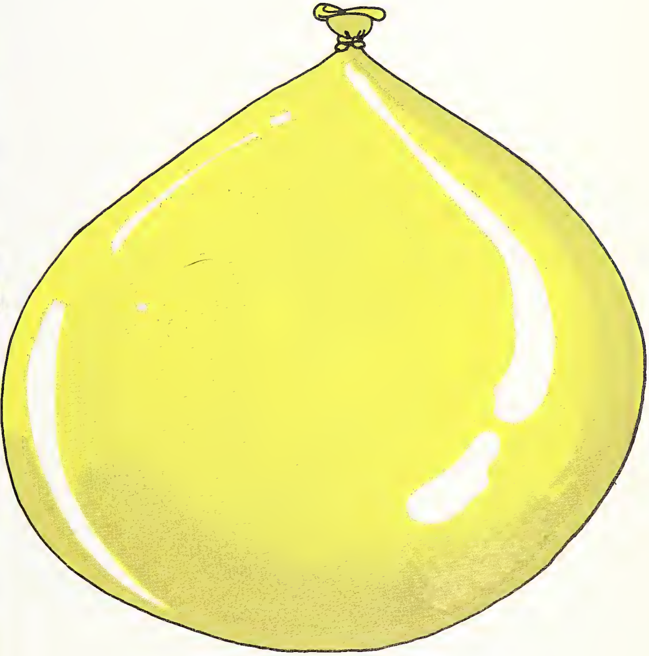
Ten centimetres make up a decimetre.

What would you want to measure in decimetres?

FINDING OUT

- Make a decimetre.
- Measure these balloons.





About how many decimetres long are they?

About how wide are they?

Practice using decimetres

Try the following activities to practise measuring in decimetres.

Measure things in the playground in decimetres.

FINDING OUT

- Guess how many decimetres long something is.
- Measure it.

Measure things in your school in decimetres and centimetres.

Metres

The symbol for metre is m.

One metre = 1 m

Ten decimetres make up a metre.

What would you want to measure in metres?

FINDING OUT

► Make a metre.

► Measure how long something is in metres.

About how many metres long is the thing you measured?

Practice using metres

Measure things in the playground in metres.

FINDING OUT

- Guess how many metres long something is.
- Measure it.

How close was your guess?

Measuring how much

Sometimes people measure
how much of something to use.

When would you want to measure
how much of something to use?

FINDING OUT

- Empty an orange juice can into a large jar.

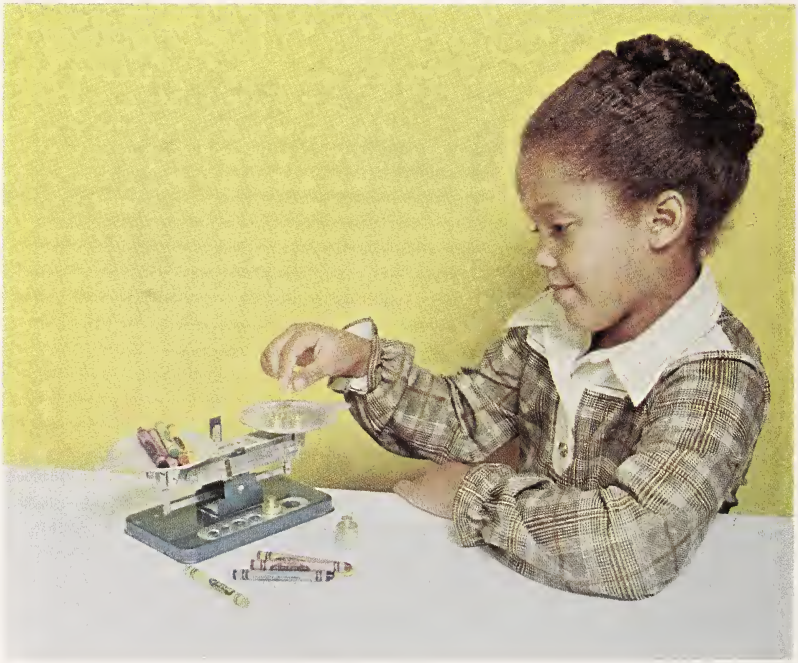
- Fill the can with water and empty it into the jar.
- Do this three times.

►Stir the orange juice.

►Taste the juice.

Was measuring important in making the juice? Why?

Measuring how heavy



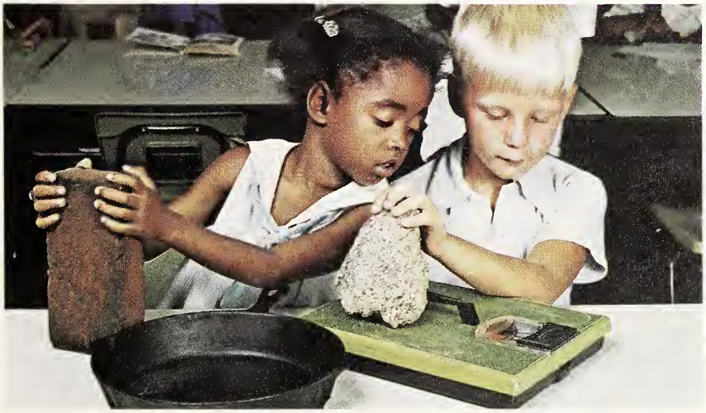
Sometimes people measure how heavy things are.

When would you want to measure how heavy something is?

FINDING OUT

- Find out how heavy you are.
- Guess how heavy
  some other things are.

- Put them in a row with the thing you think is heaviest first.
- Find out how heavy these things are.



How heavy are you?
How heavy are the other things?

Words to Know

measuring
centimetres
decimetres
metres
measure
length

Picture to Think About

What would you use to measure how tall this animal is? Why?

Questions to Answer

1. What can you find out by measuring something?
2. When would you measure something in centimetres?
3. When would you measure something in metres?
4. When would someone measure how much of something to use?
5. When would someone measure how heavy something is?

Fun Things to Do

Find out how high a room is.
Tie a long string to a long stick.
Touch the top of the room with the stick.
Mark the string where it hits the floor.
Measure the string.

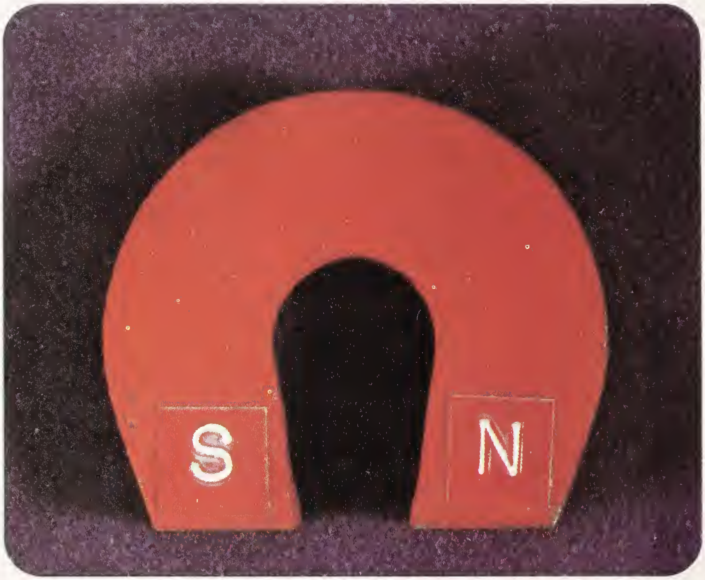
Find or draw pictures of people measuring things.

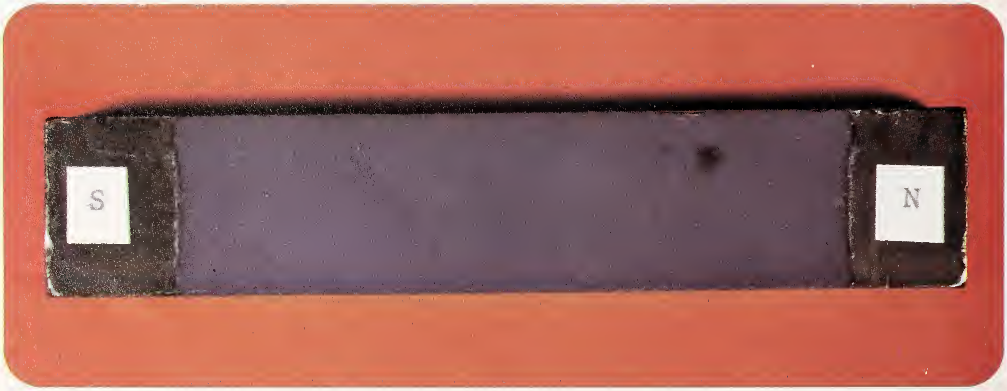
4 Magnets

What is a magnet?

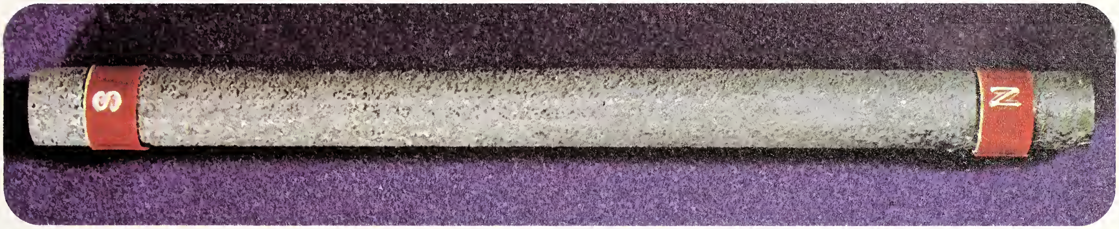
When have you used a magnet?

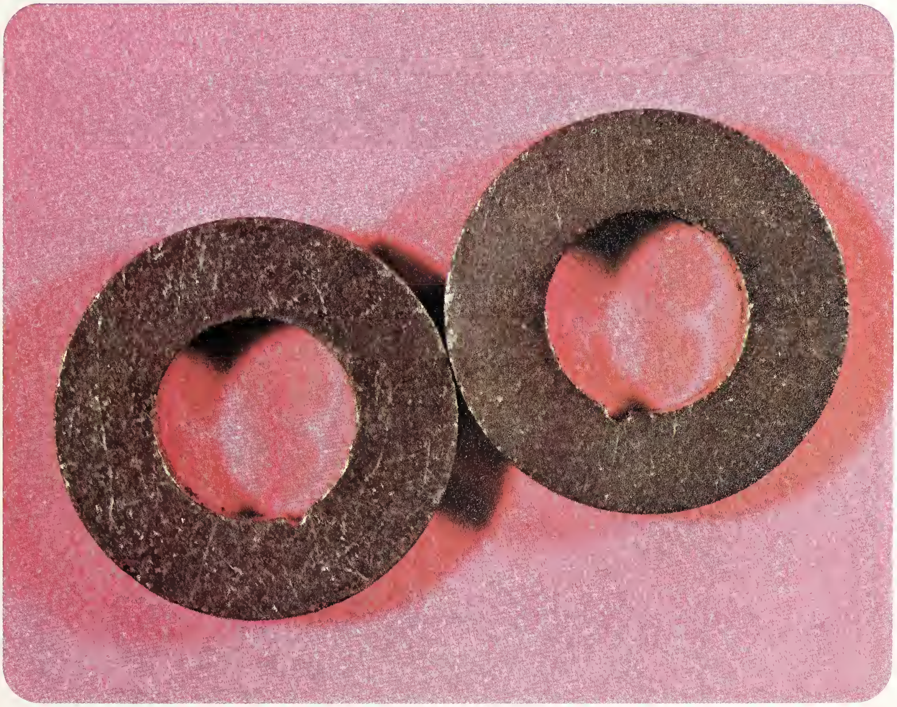
Kinds of magnets



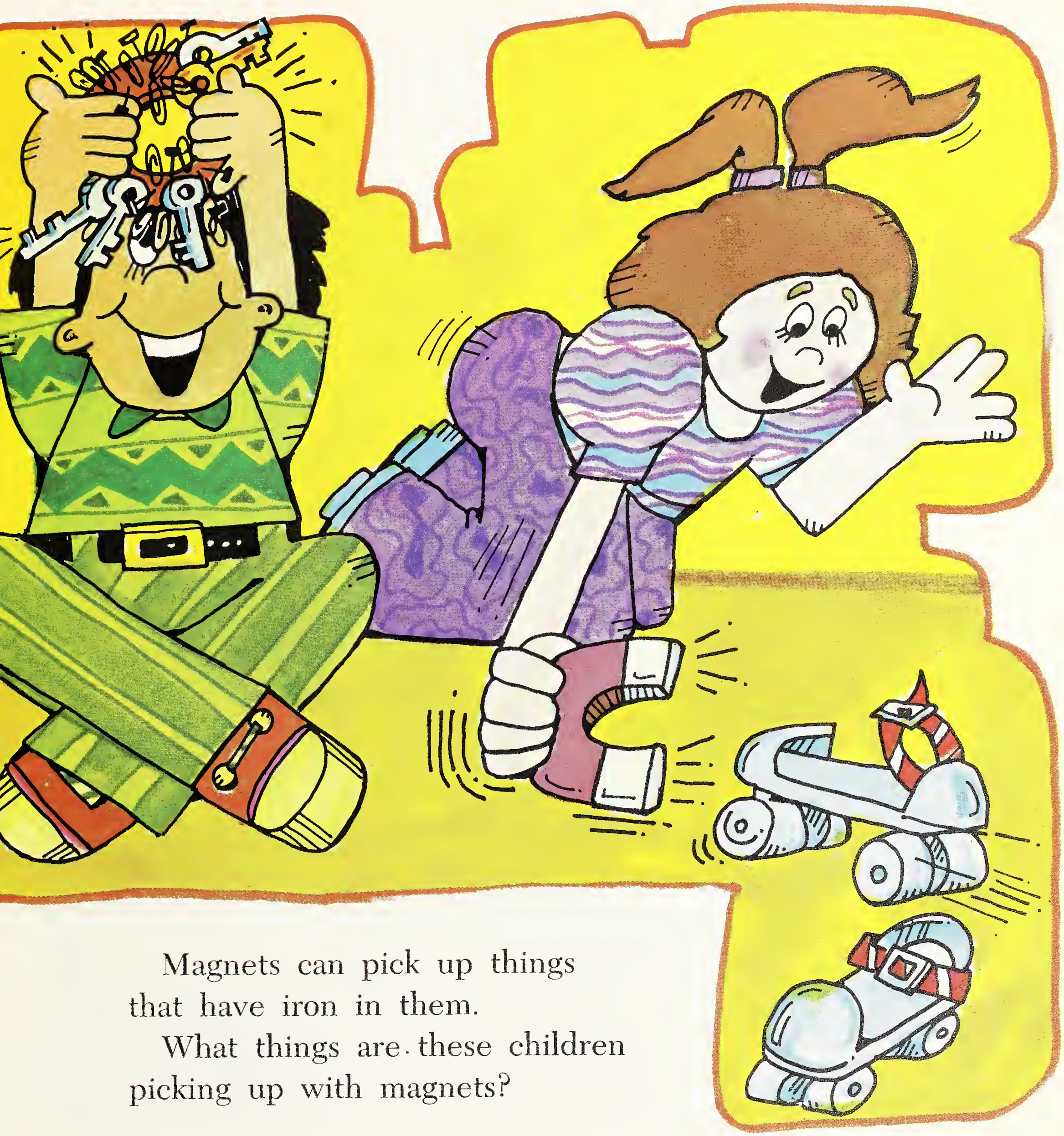


How are these magnets alike?
How are they different?
Which kinds of magnets have you seen?





Picking up things with magnets



Magnets can pick up things that have iron in them.

What things are these children picking up with magnets?

FINDING OUT

- Put many different things on a table.
- Guess which things your magnet will pick up.

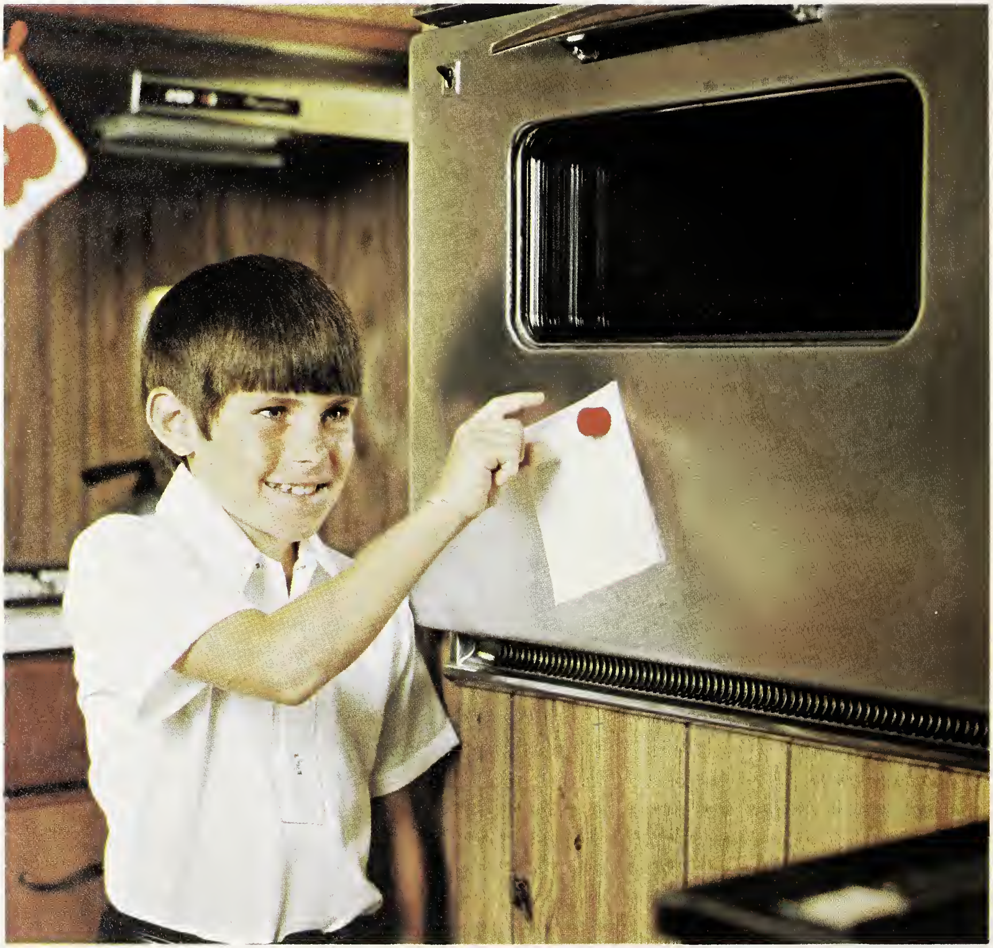
Bring your magnet near each thing.

What happens? Did you guess right?

Guess about other things that your magnet will pick up.

Did you guess right? Why?

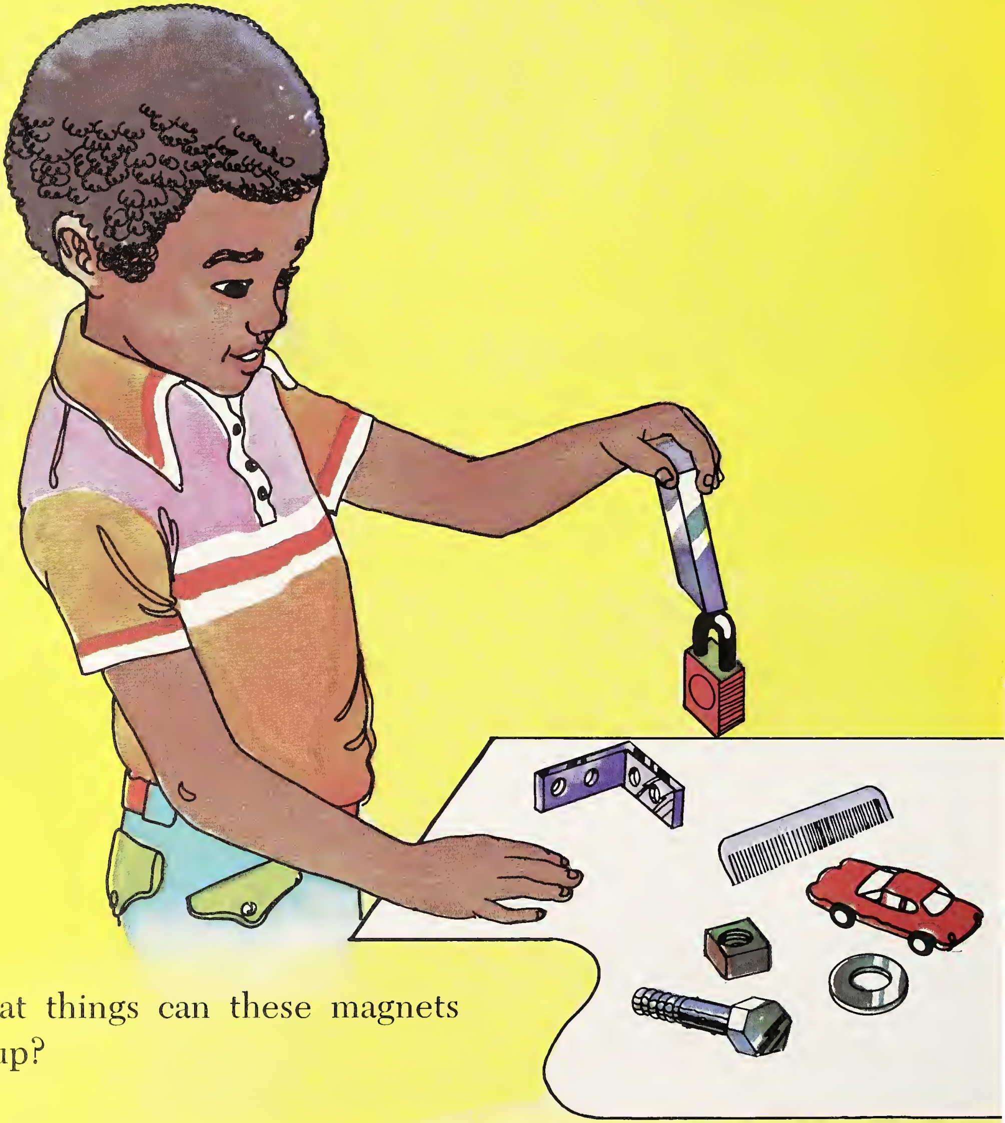
Magnets sticking to things



Where are the magnets in these pictures?

What are some other things magnets may stick to?

Strong and weak magnets



What things can these magnets pick up?

What things can strong magnets pick up?

What things can magnets that are not so strong pick up?

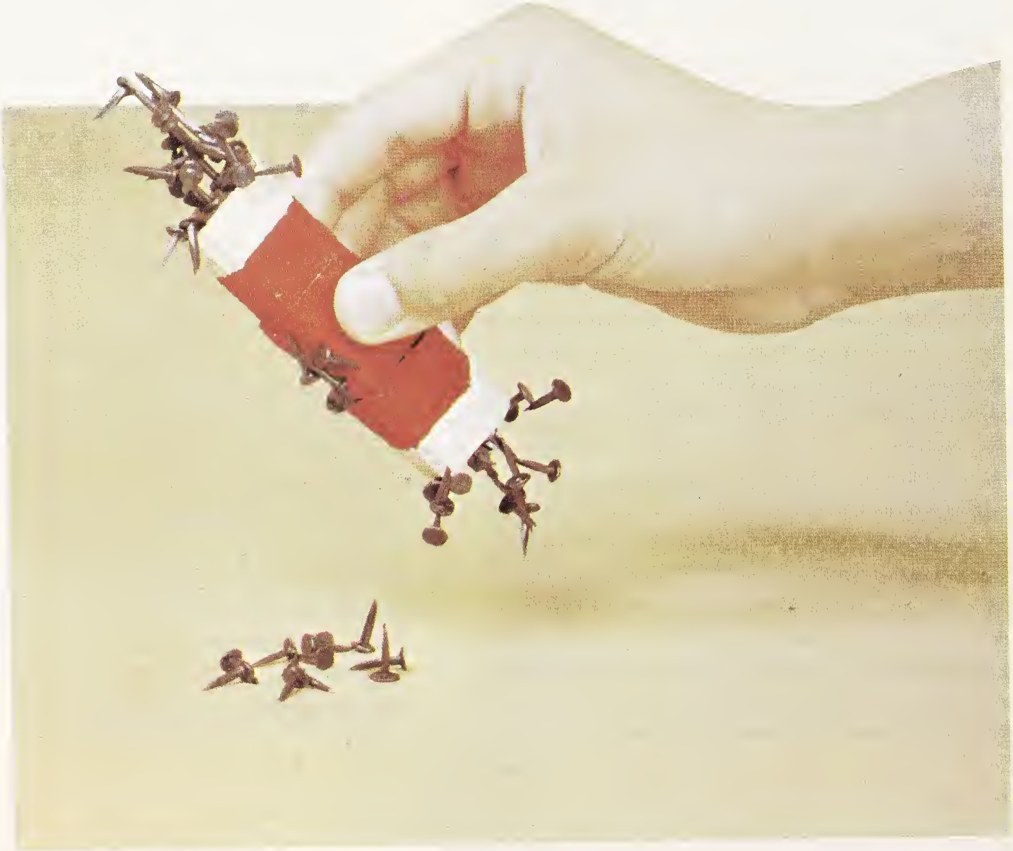
How are these things different?

FINDING OUT

- Collect different kinds of magnets.
- Put different things with iron in them on a table.
- Test your magnets.

Which magnets are strong?
How can you tell?
Which magnets are not strong?
How can you tell?

Strong parts of magnets



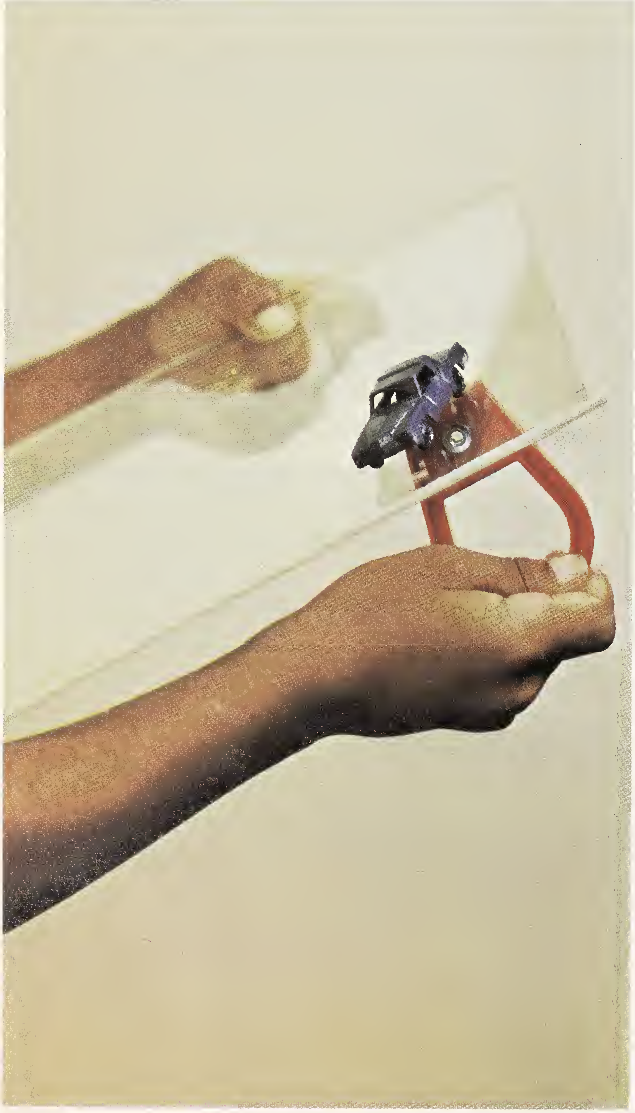
Where are the strong parts of this magnet? How do you know?

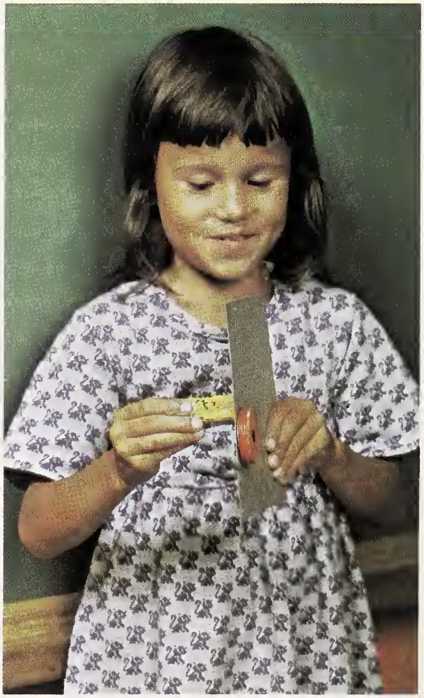
FINDING OUT

- Place small things with iron in them on a table.
- Put a magnet near these things.

Where are the strong parts of your magnet?

Magnets pulling through things

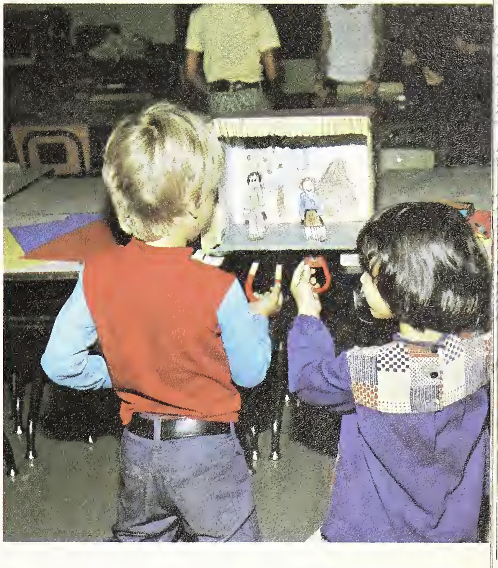




How are these children pulling things?

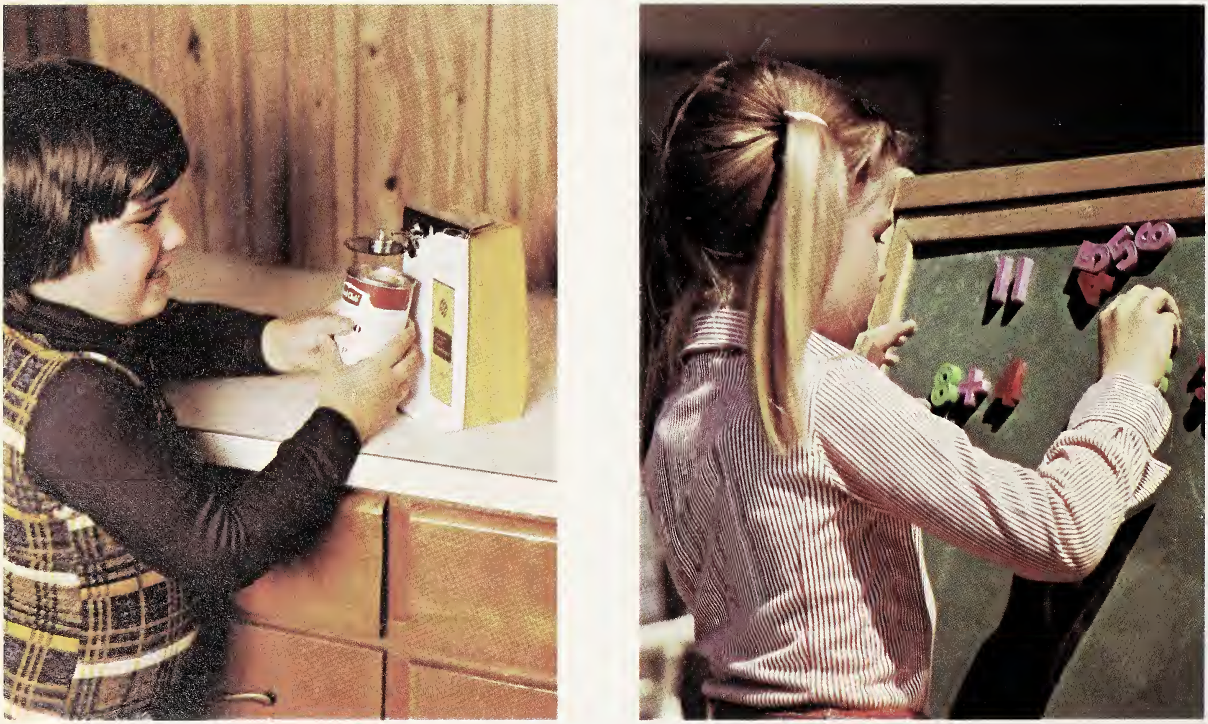
FINDING OUT

- Make a stage and players out of cardboard.
- Tape your players to small magnets or paper clips.
- Use a magnet under your stage to make your players move.

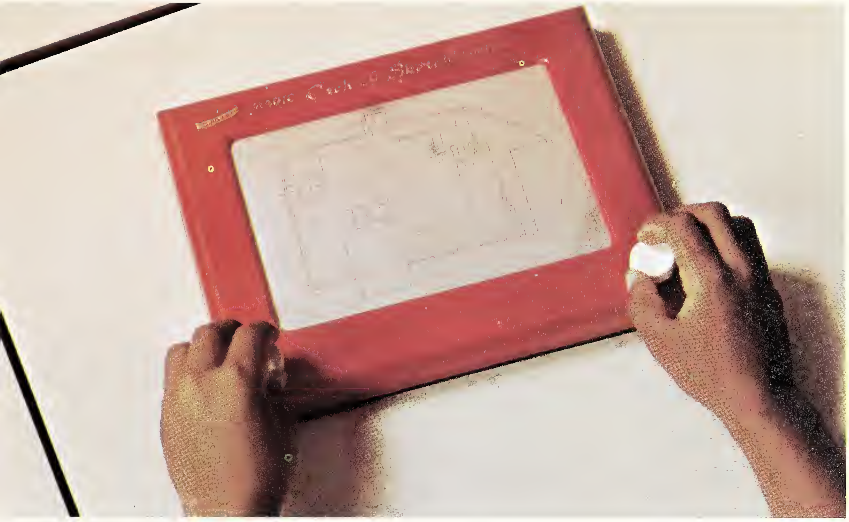


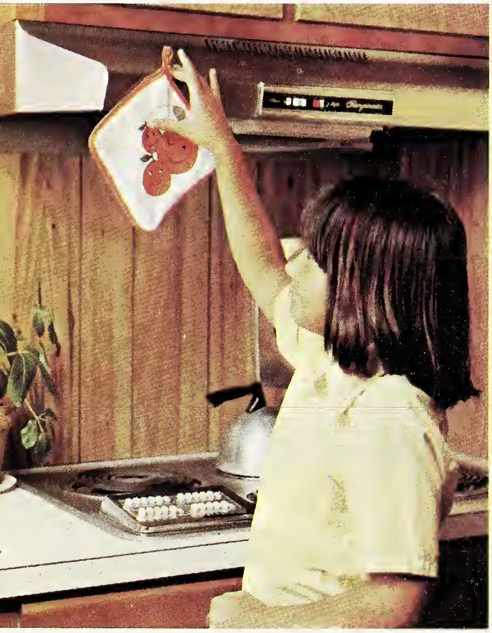
In what ways can you make your players move?

Uses of magnets



Find the magnets in these pictures.





How are these magnets being used?

FINDING OUT

- Draw a picture on a small piece of cardboard.
- Colour your picture.
- Paste a small magnet to the back of your picture.

What things will your "picture magnet" hold up?

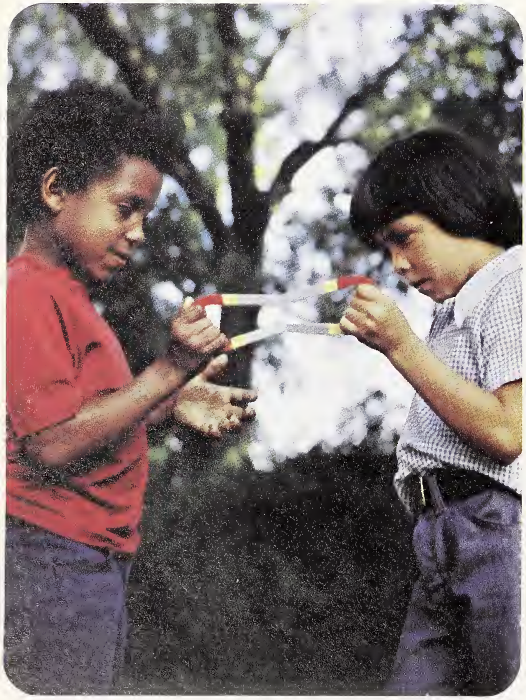
FINDING OUT

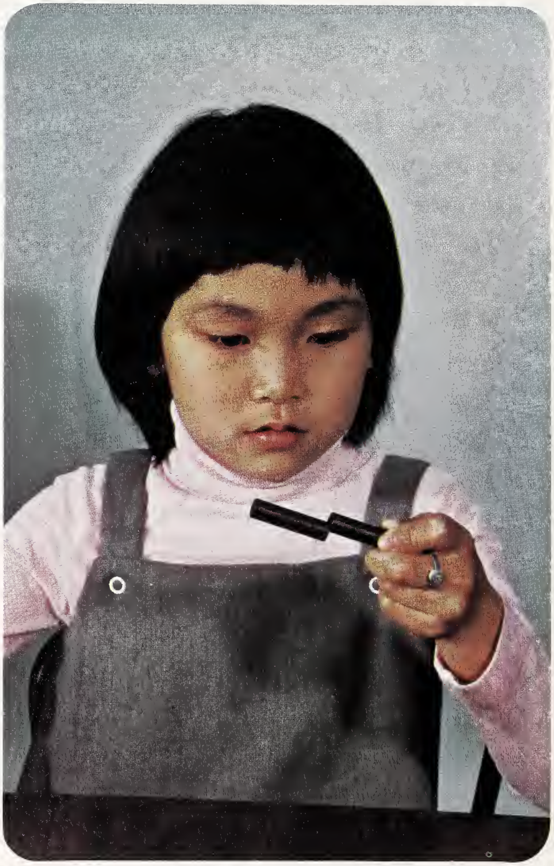
- Find magnets in your home.
- Find magnets in your school.

How are these magnets used?

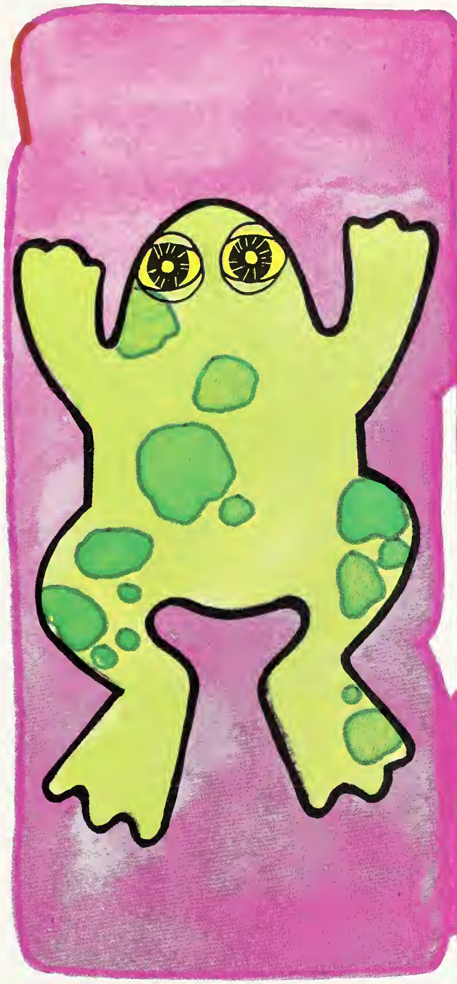
Magnets sticking together

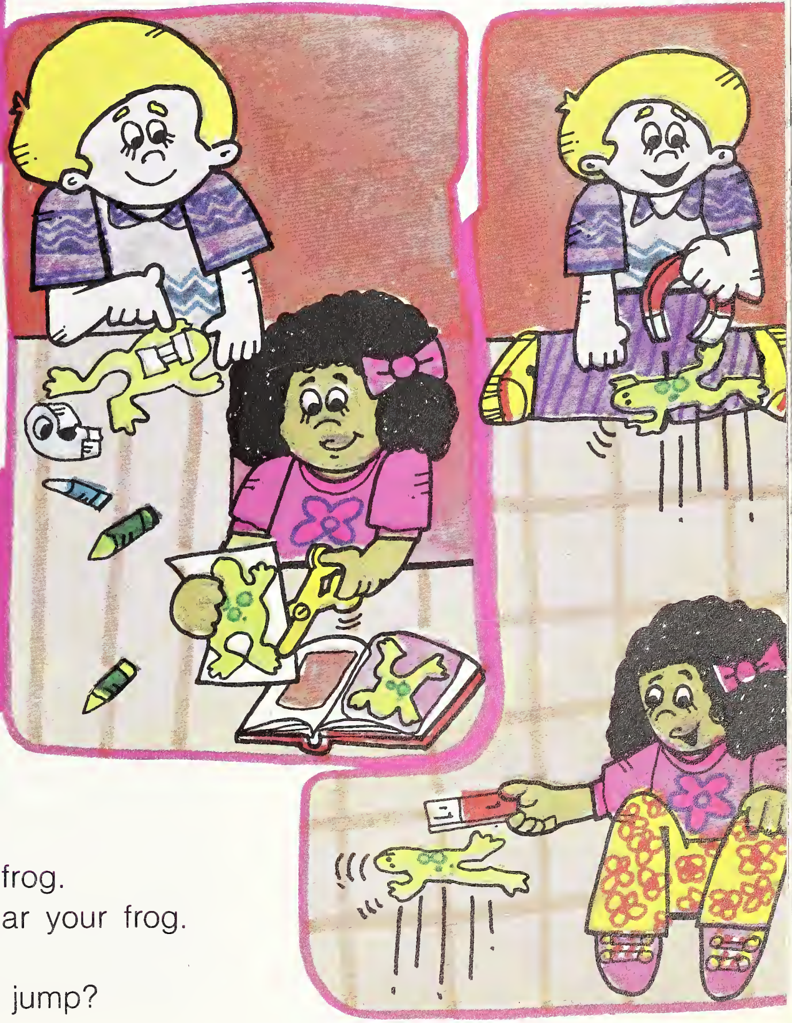
What do these pictures show about magnets?





FINDING OUT

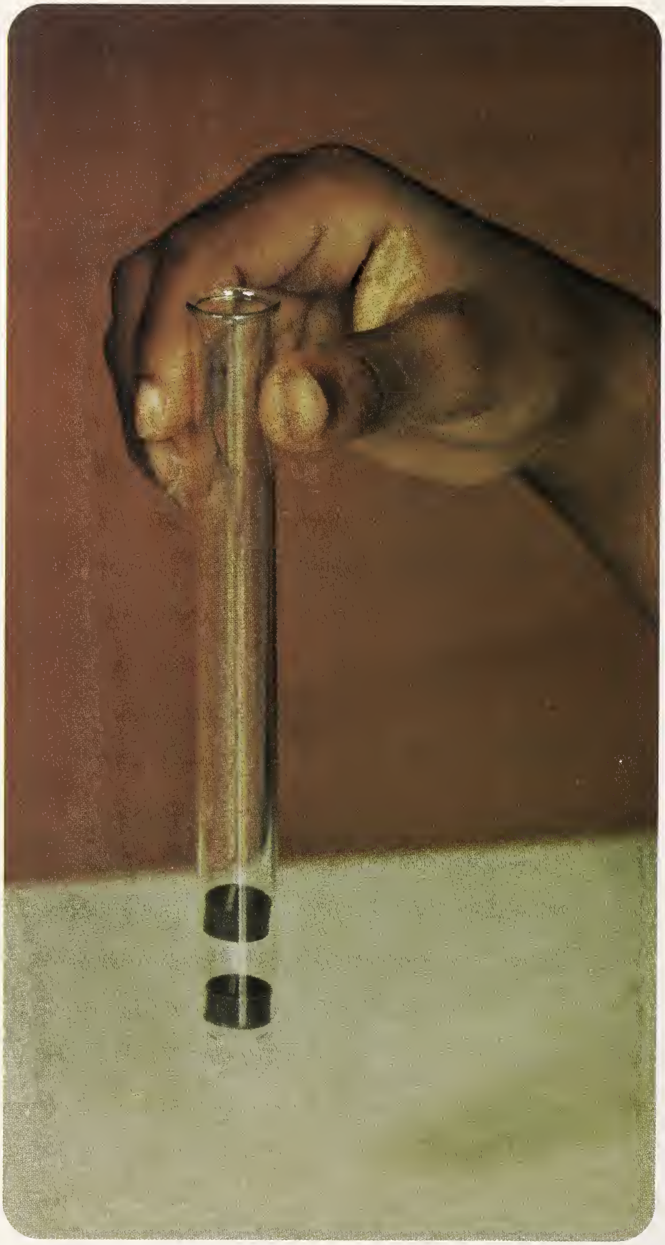




- Make a frog as shown.
- Tape a magnet to your frog.
- Hold another magnet near your frog.

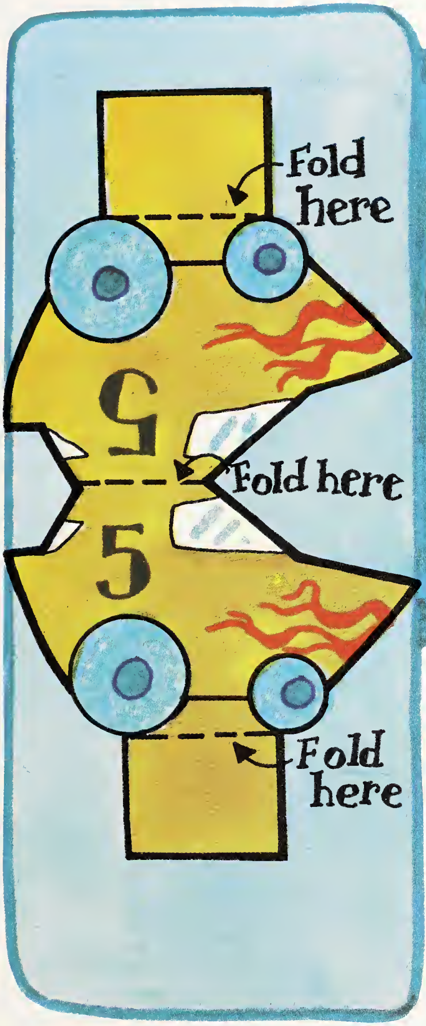
How high can your frog jump?

Magnets pushing away



What does this picture show about magnets?

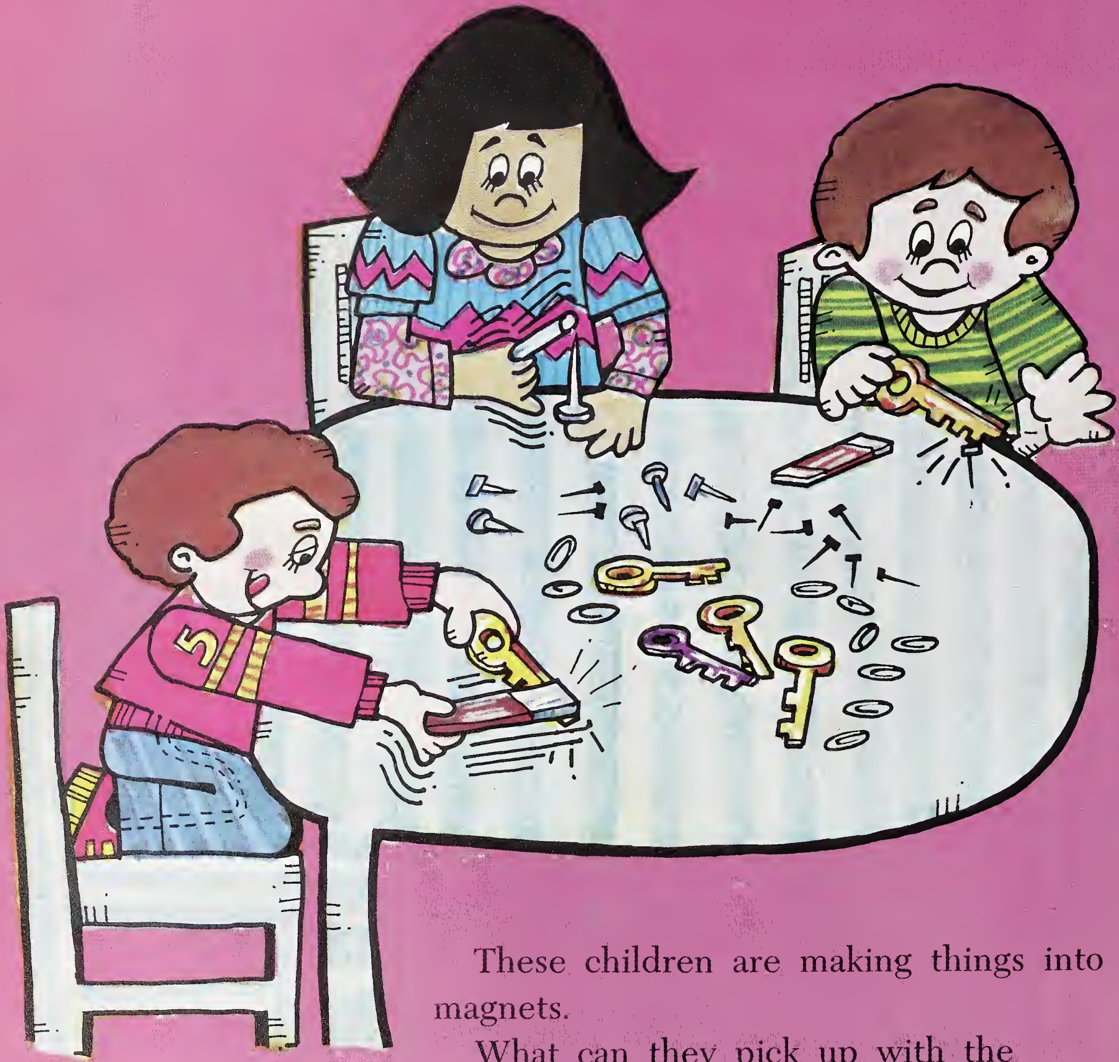
FINDING OUT



- Make a car as shown.
- Tape a magnet to your car.
- Make your car move by pushing it away with another magnet.

How far can you move your car without touching it?

Making magnets



These children are making things into magnets.

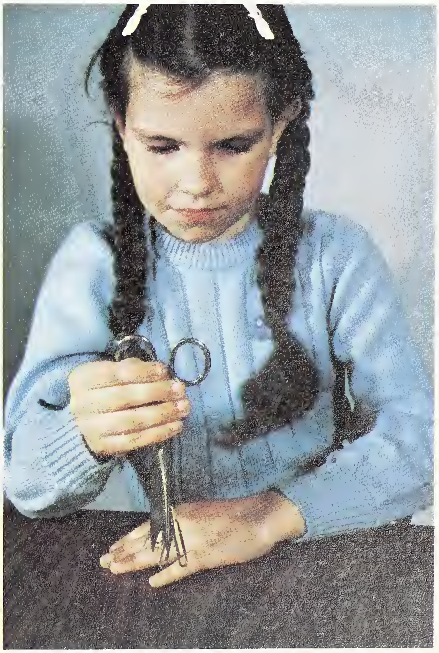
What can they pick up with the magnets they are making?

FINDING OUT

- Stroke some scissors with one end of a magnet.
- Stroke one way, not back and forth.

- Bring your scissors close to some small iron things.

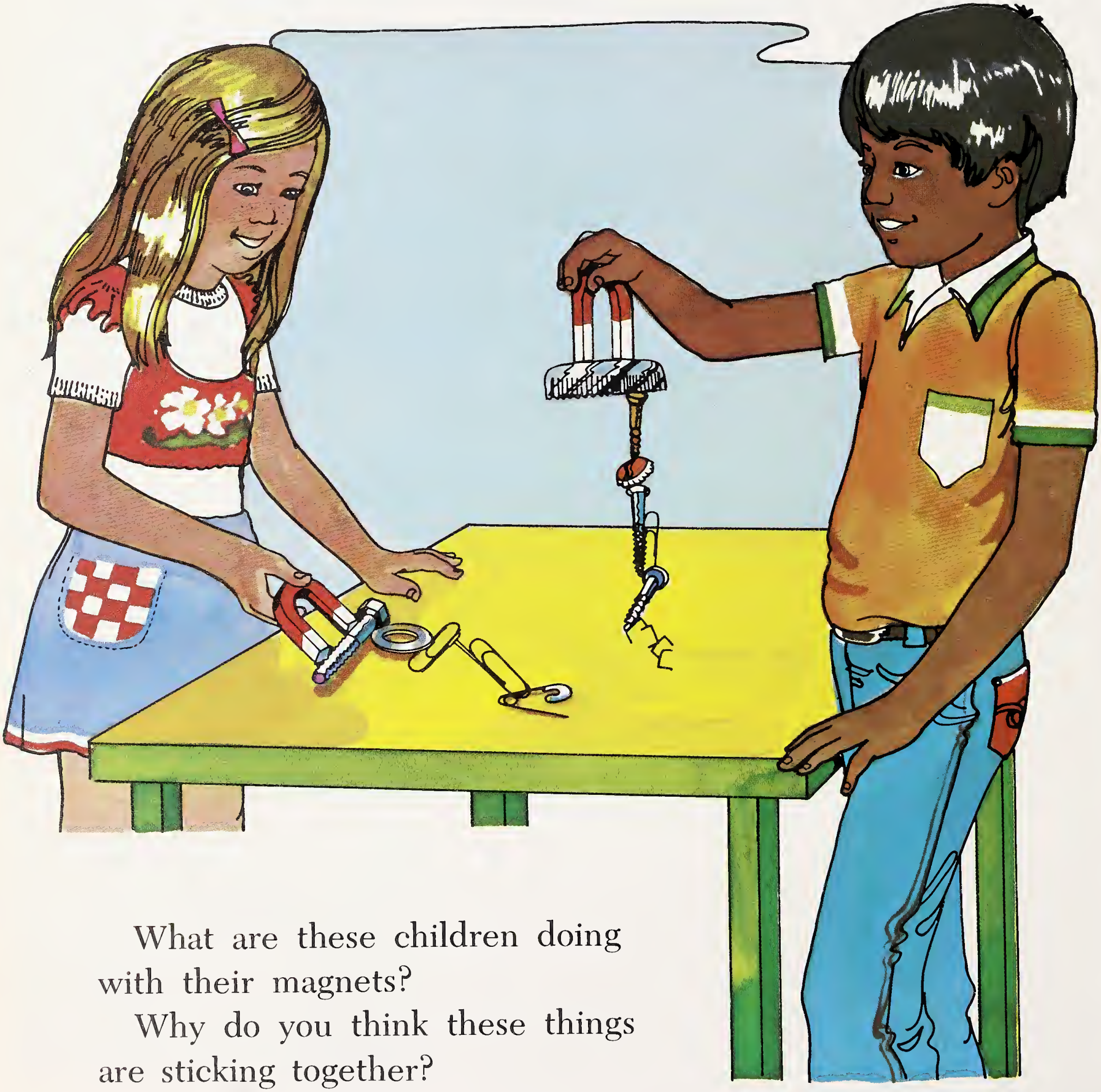
What happens?



- Try making other things into magnets.

What things can you pick up with these magnets?

Chains of magnets



What are these children doing with their magnets?

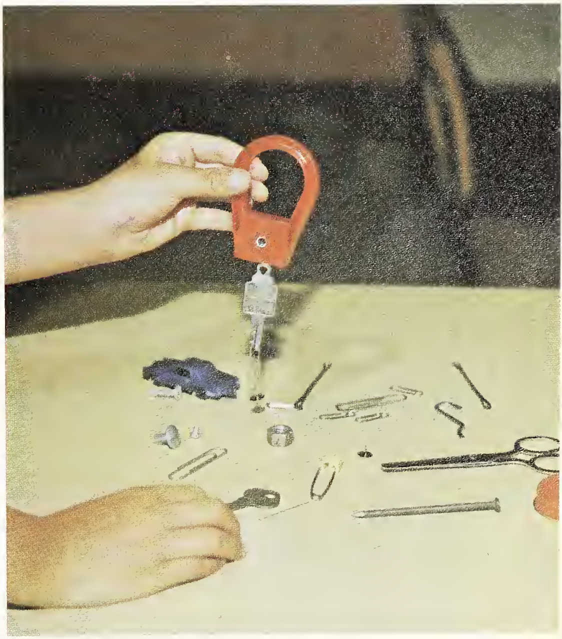
Why do you think these things are sticking together?

FINDING OUT

- Collect some small iron things.

- Hold a magnet near these things.
- Make a chain of iron things.

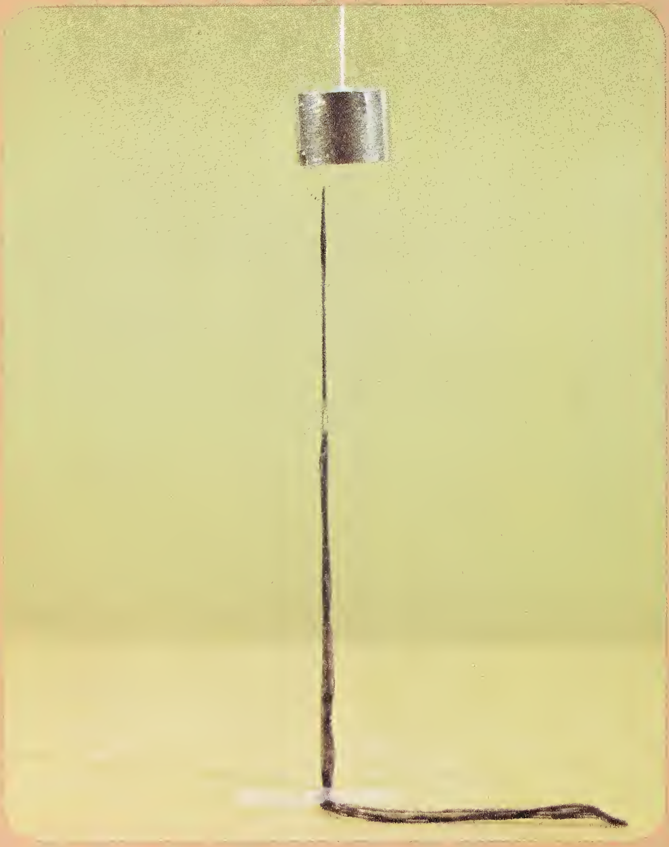
How many different pieces stick to your chain?



Words to Know

magnet	iron	strong
pulling	pushing	

Picture to Think About



What is happening in this picture? Why?

Questions to Answer

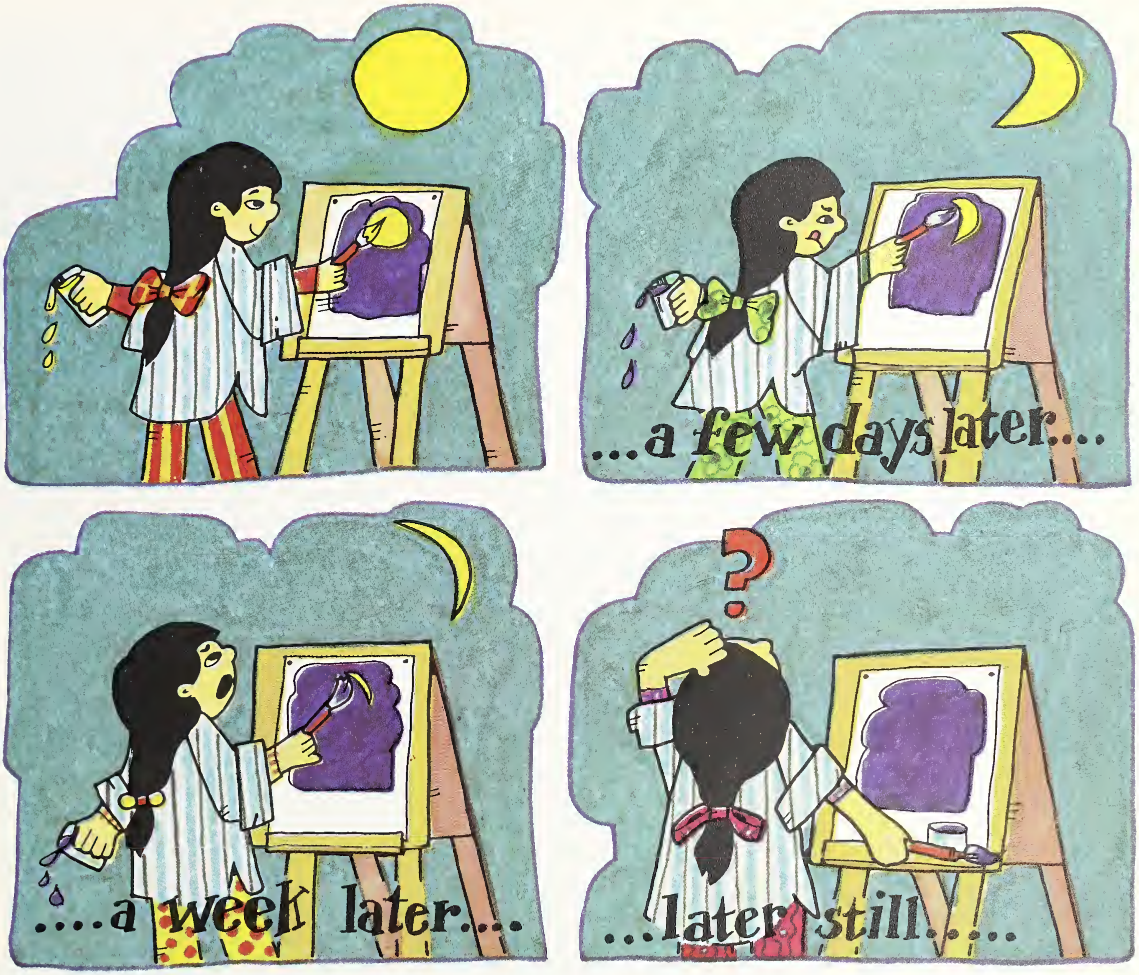
1. What things stick to magnets?
2. What things do not stick to magnets?
3. What are some uses of magnets?

Fun Things to Do

Draw a picture of a face.
Do not draw any hair.
Place tiny pieces of iron
(such as carpet tacks) on the face.
Hold a magnet under your picture.
Move the "hair" in place with the magnet.

Write numbers on small pieces of paper.
Tape the pieces to paper clips.
Place the paper clips in a box.
Tie a string to a magnet.
Go fishing!
Add up the numbers
on the "fish" you caught.

5 The Moon

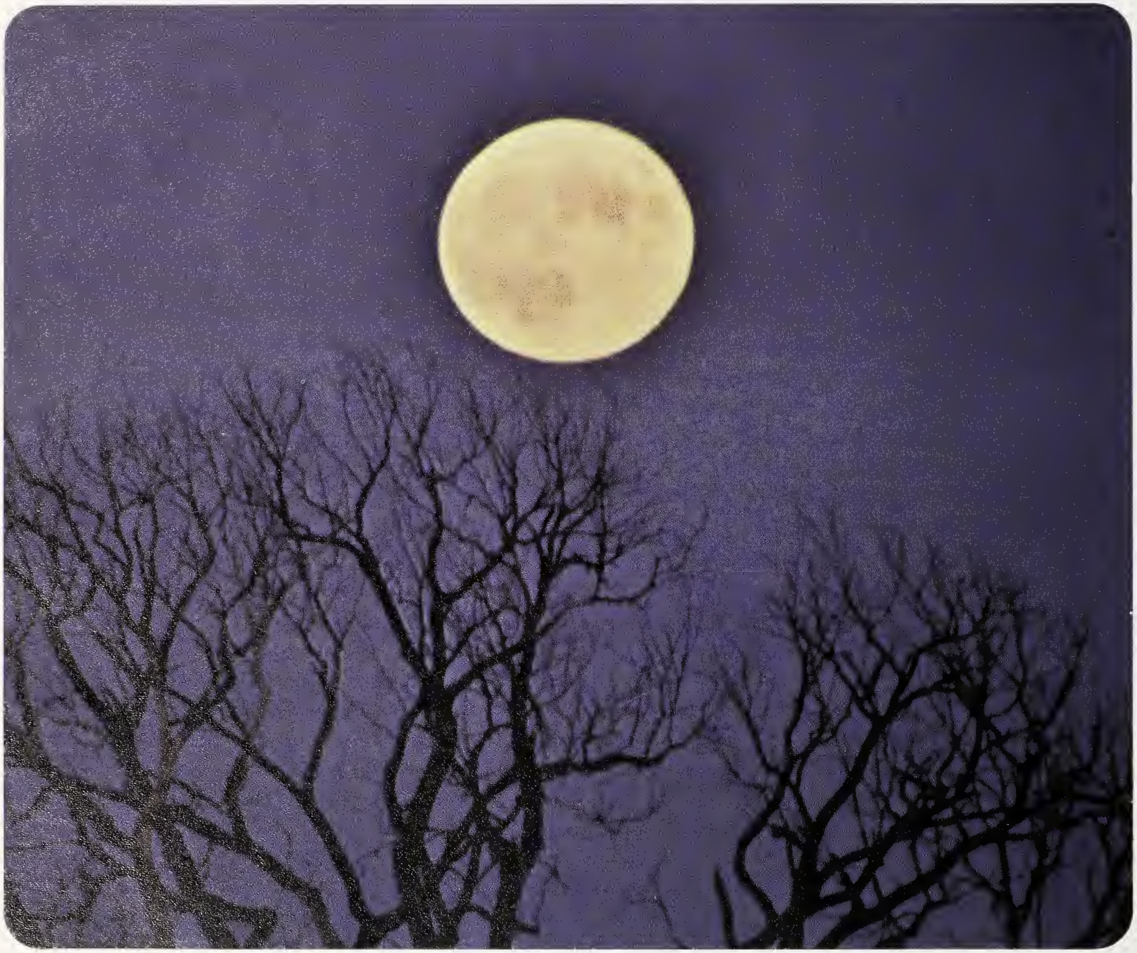

...a few days later...
....a week later....
?
...later still....

What happened to Sara?

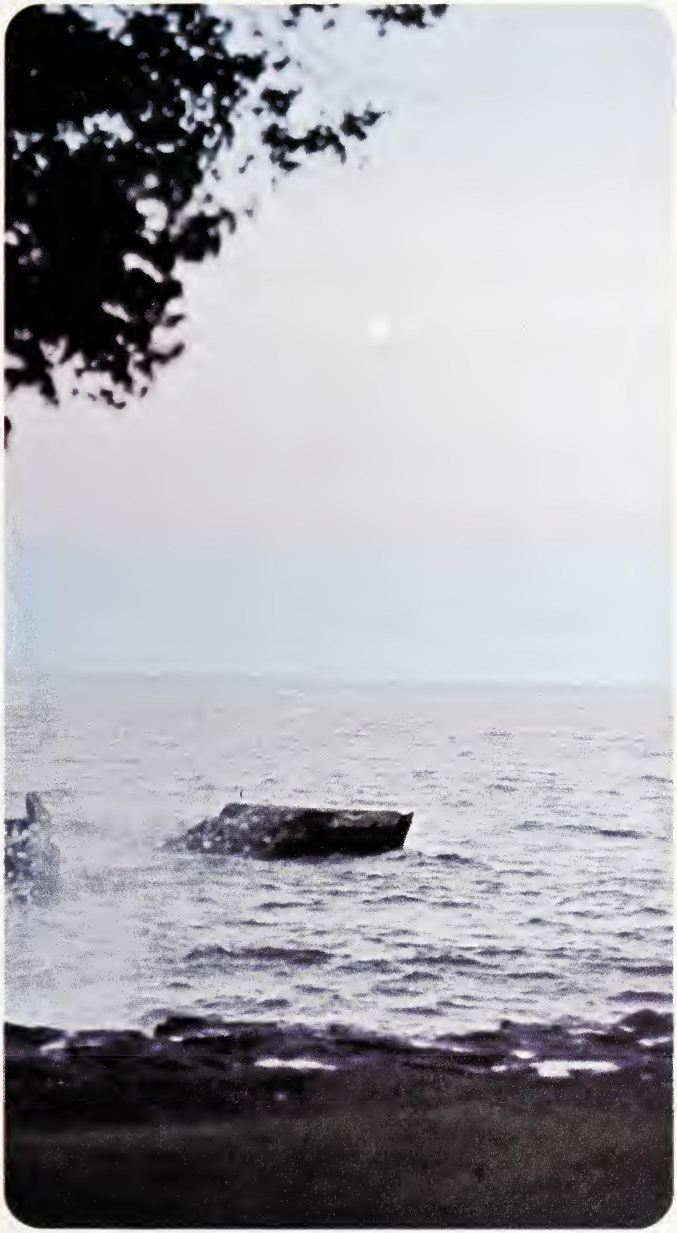
When have you watched the moon?

What things did you see?

The moon at night



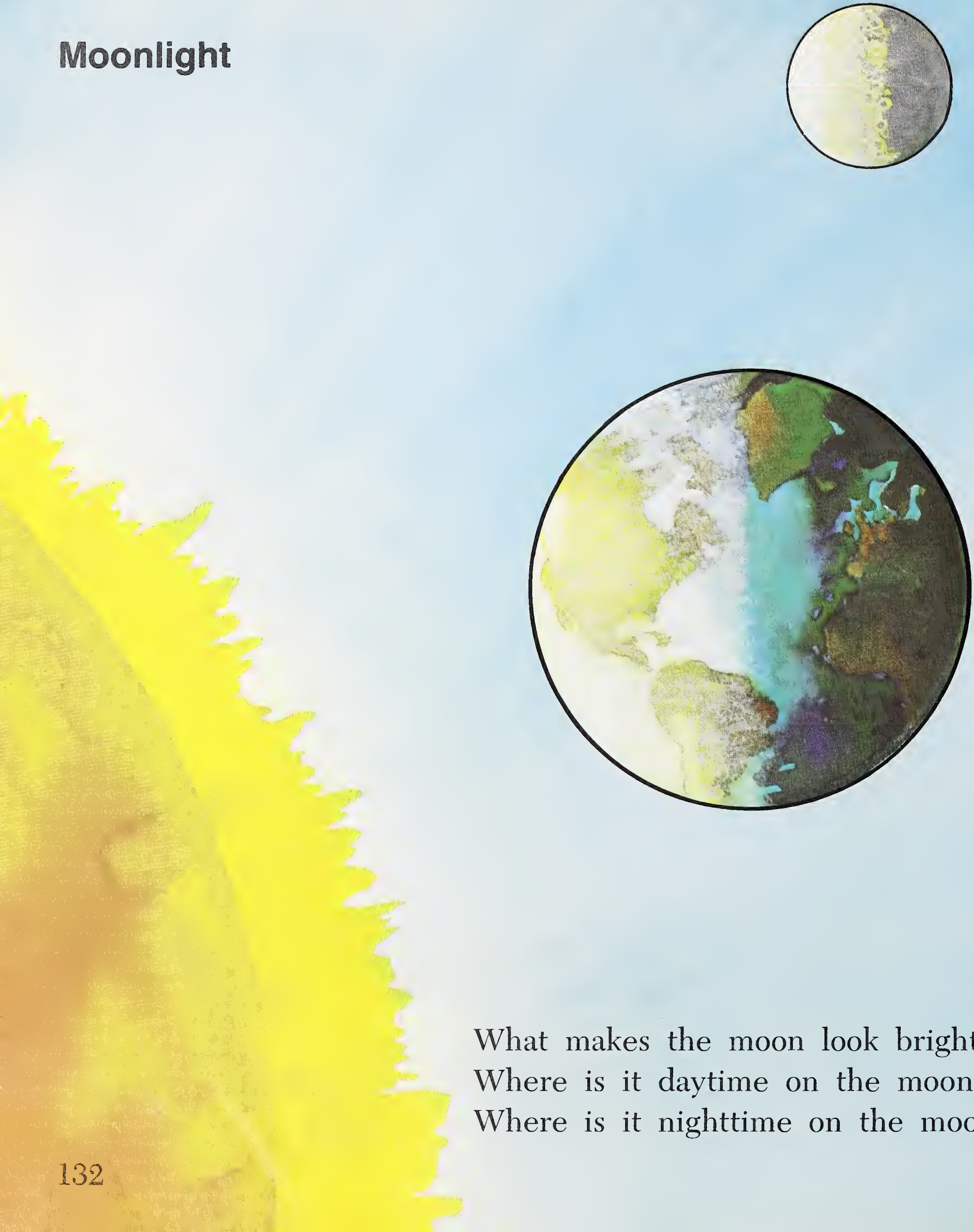
When have you seen the moon look like this?



The moon during the day

When have you seen
the moon look like this?

Moonlight



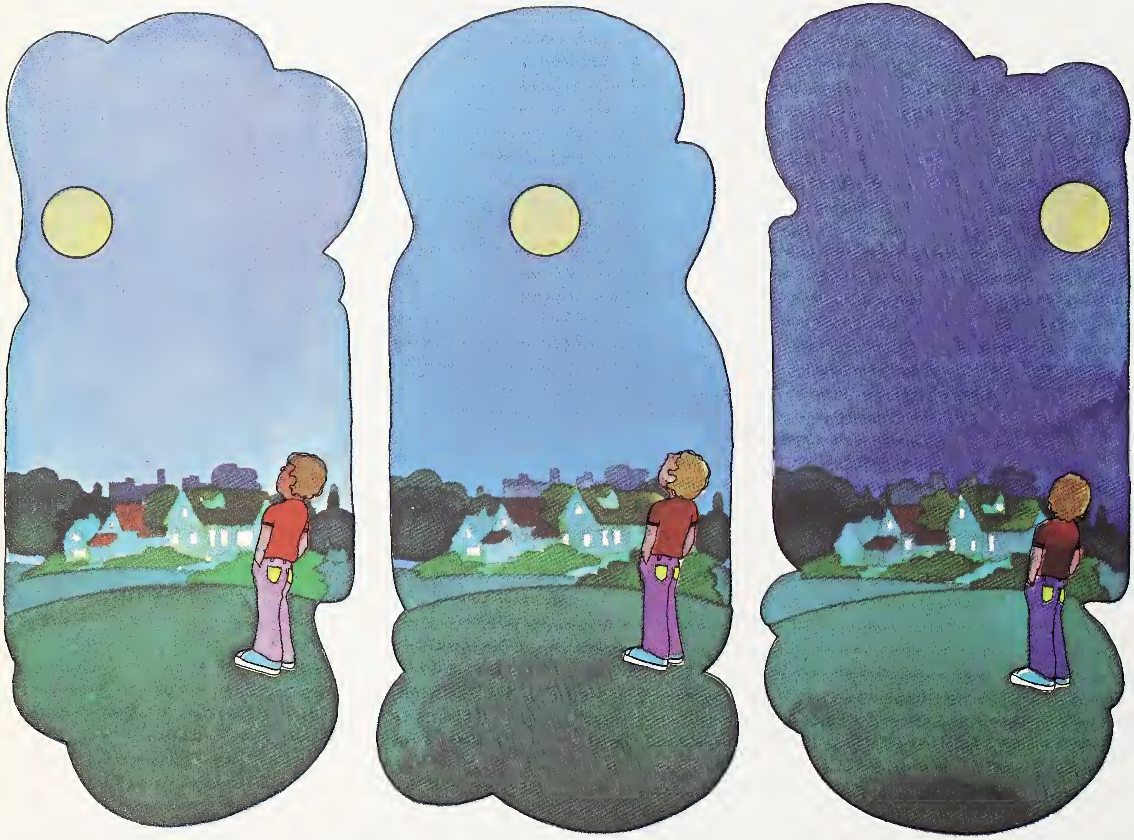
What makes the moon look bright?
Where is it daytime on the moon?
Where is it nighttime on the moon?

FINDING OUT

- Darken the room.
- Shine a light on a ball. Make believe this is the moon.
- Shine the light away from the moon.

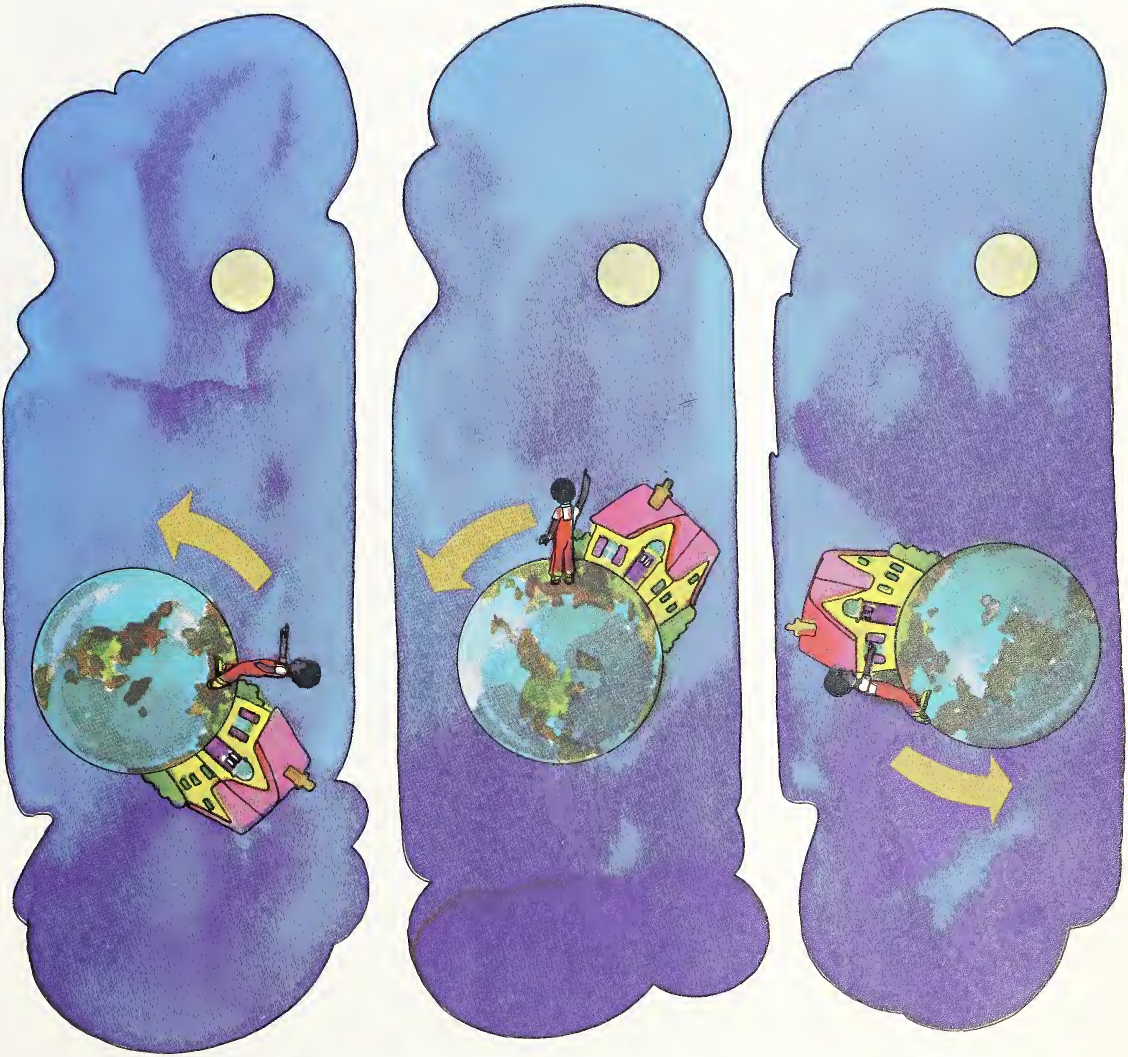
When can you see the moon?
When can you not see the moon?

Rising and setting of the moon

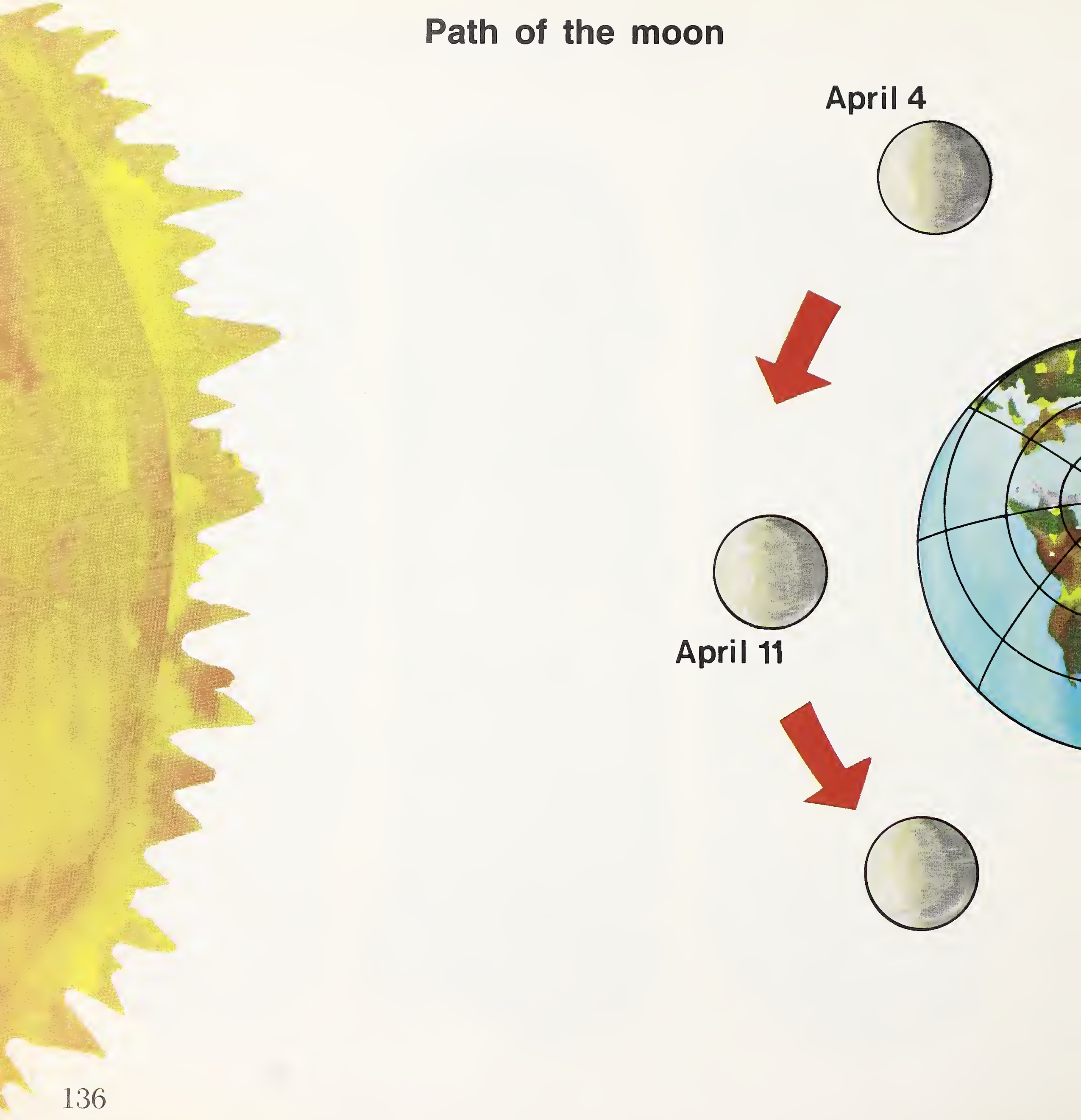


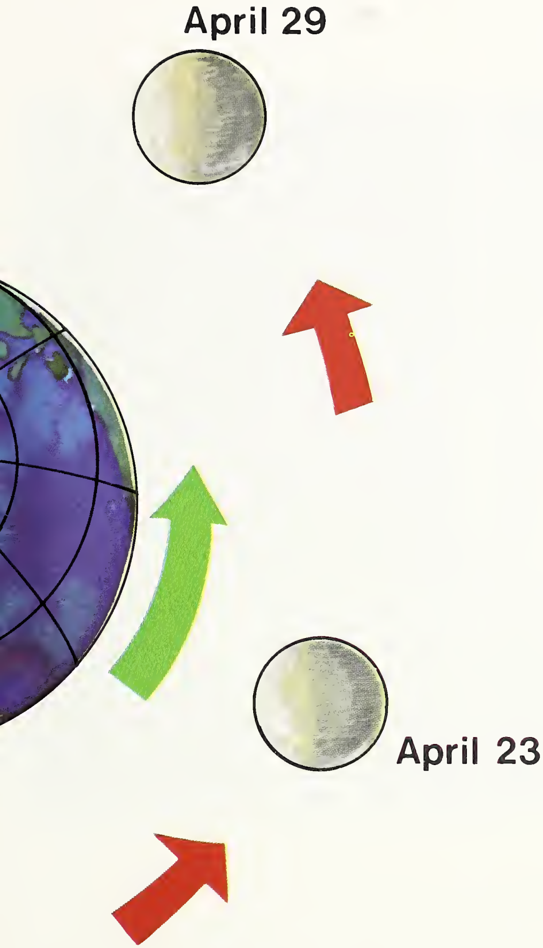
Where is the moon
in each of these pictures?
At what different places
have you seen the moon?

Why does it look as if the moon is moving during the night?



Path of the moon

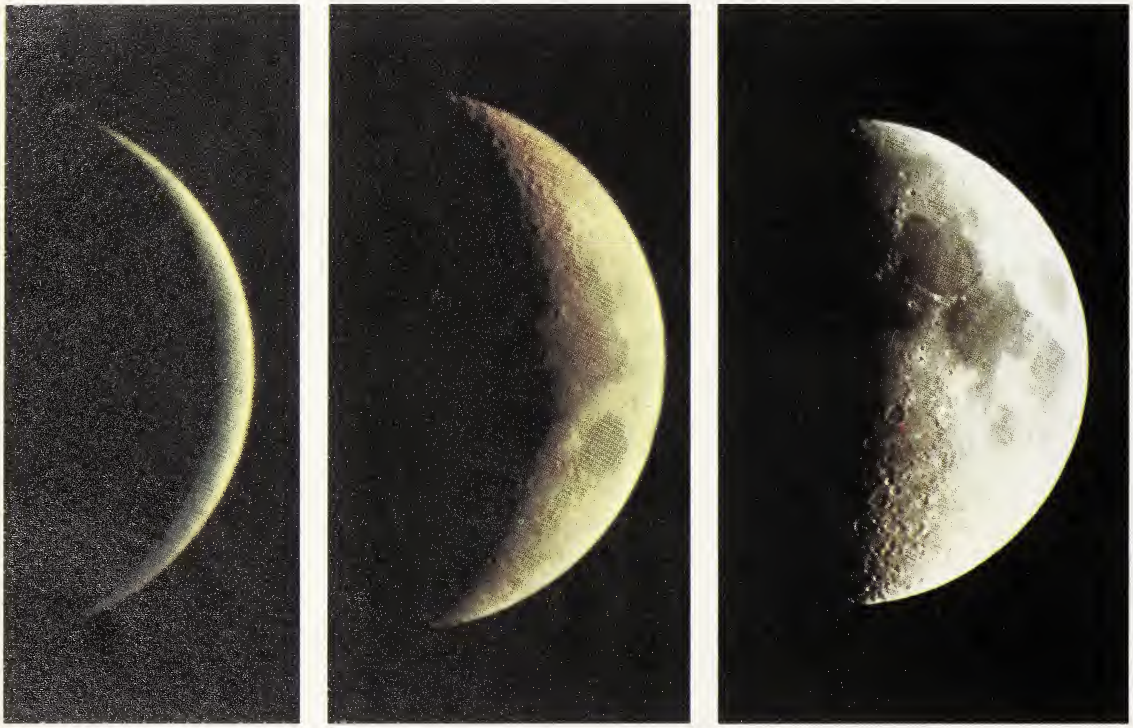


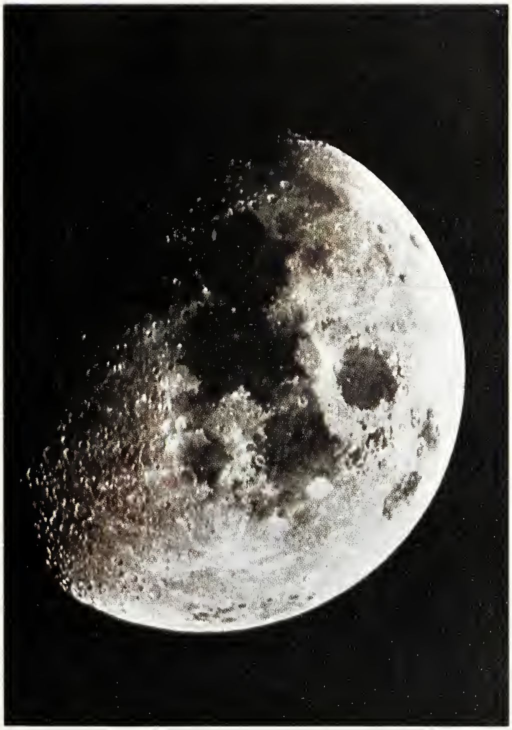


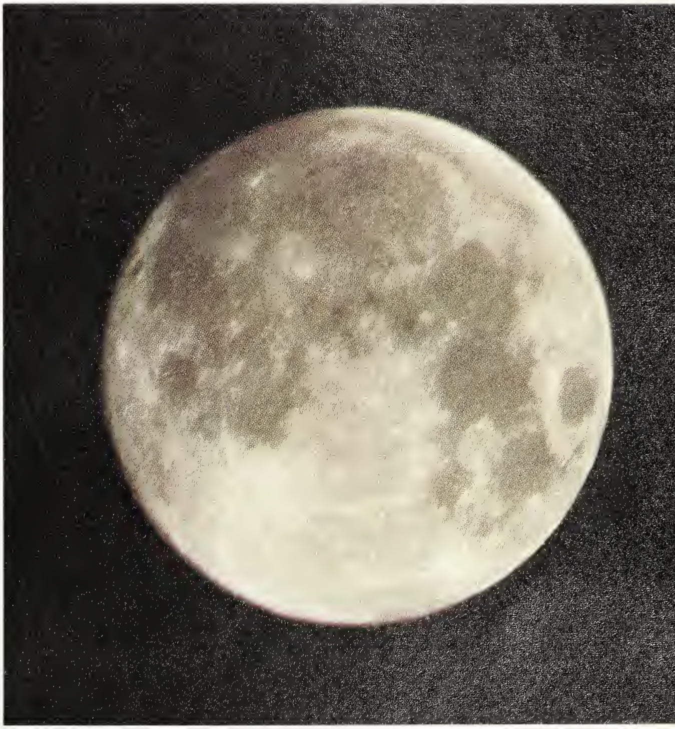
How has the moon moved in these pictures?

How long did it take?

Shapes of the moon



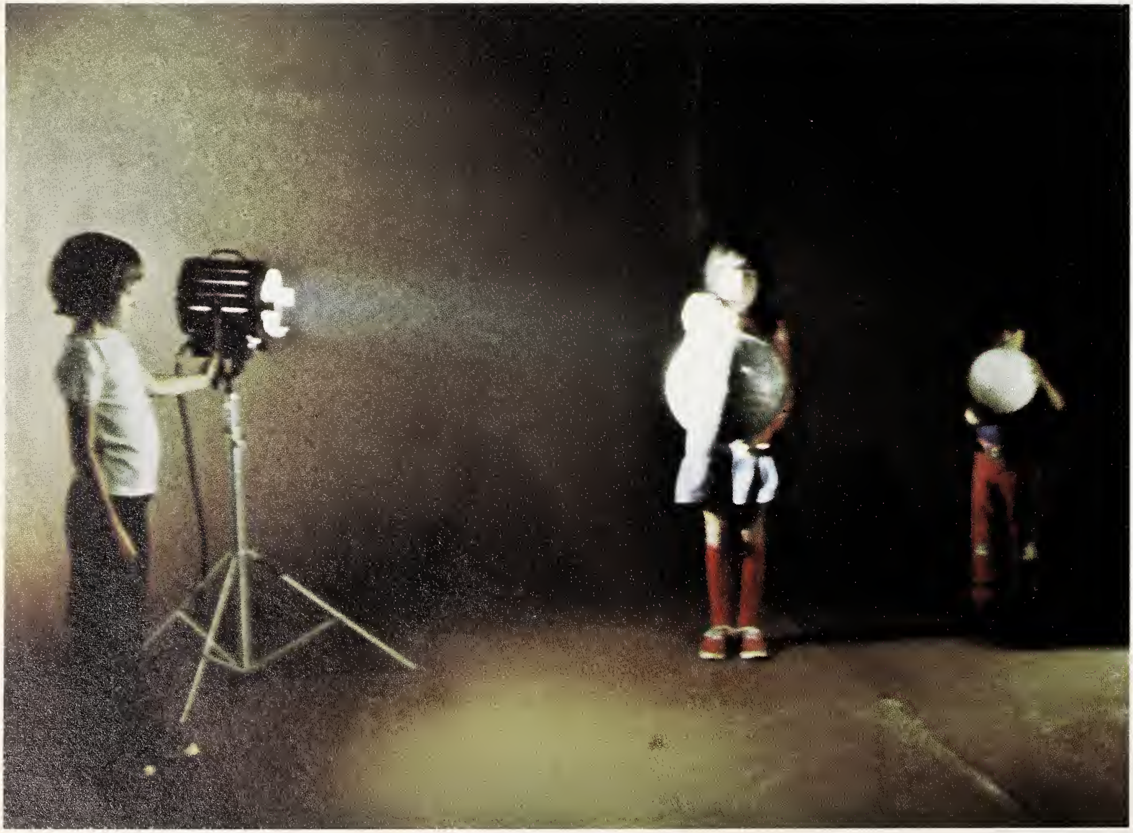




How does the moon change?
What are some other ways
you have seen the moon change?

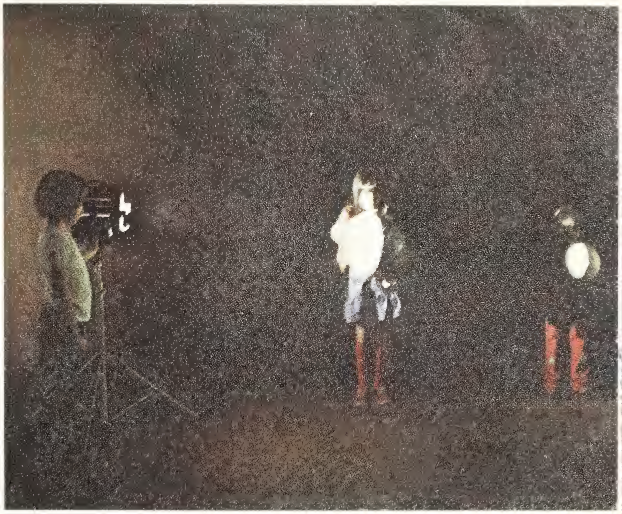
FINDING OUT

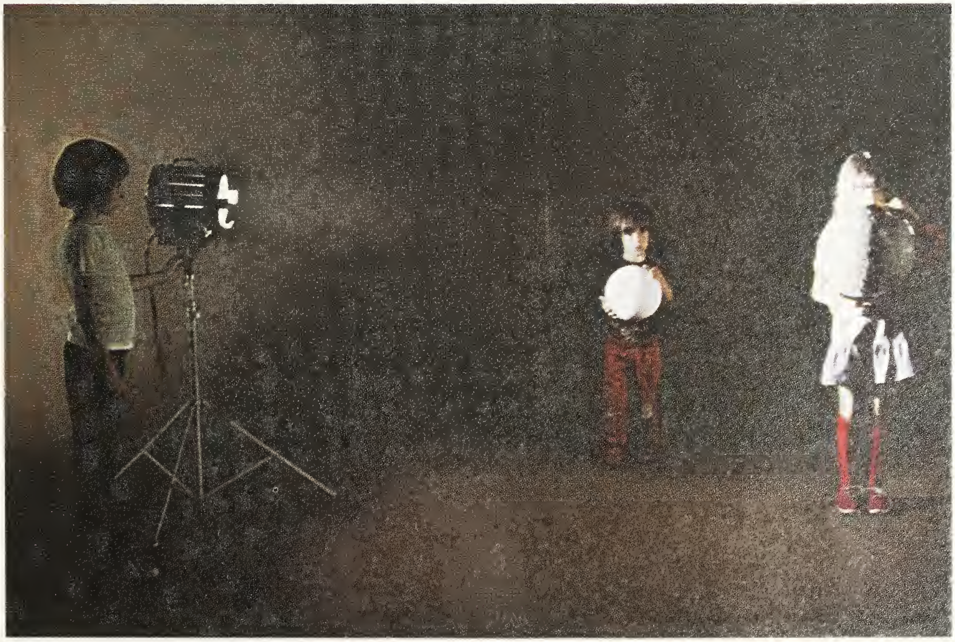
- Darken the room.
- Shine a light on the earth and the moon.



►Move the moon around the earth.

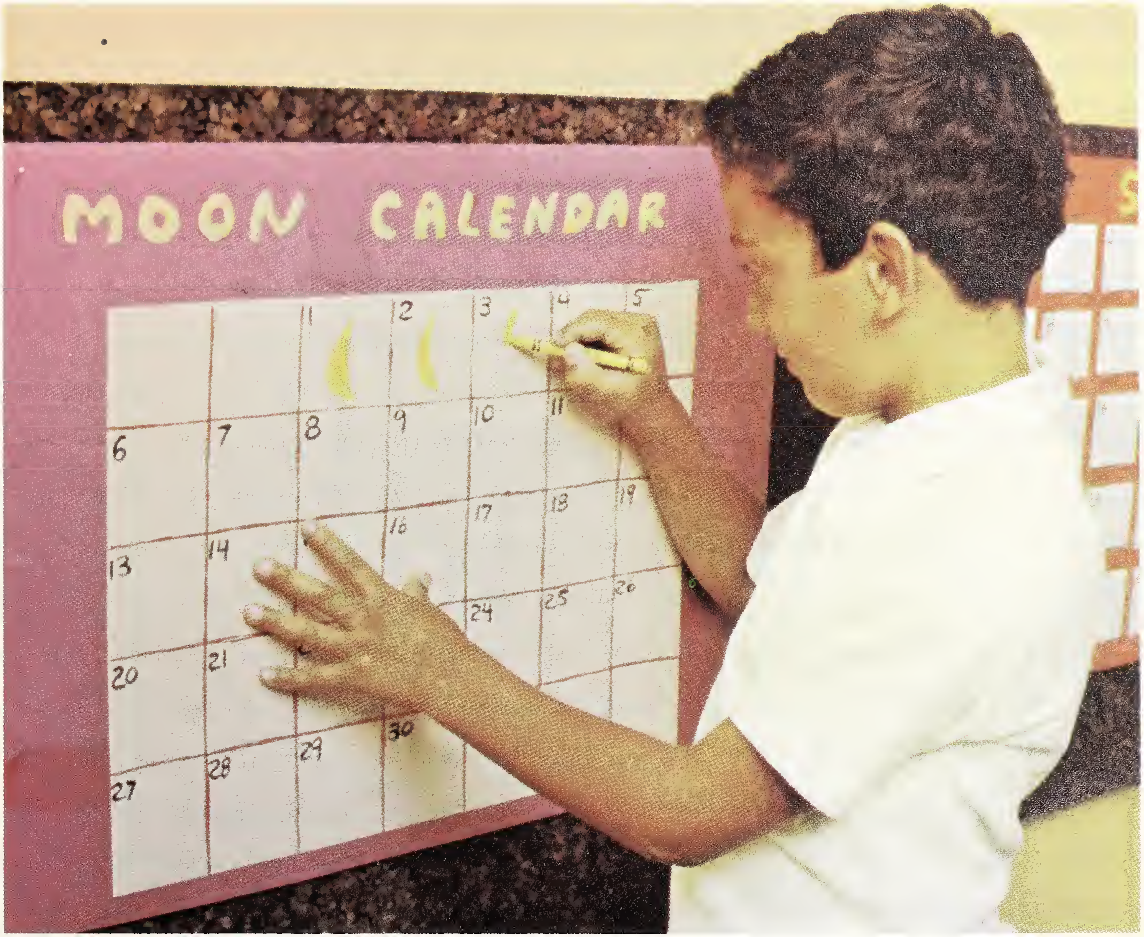
When can you see a full moon?
When can you see a half-moon?
What other shapes do you see?





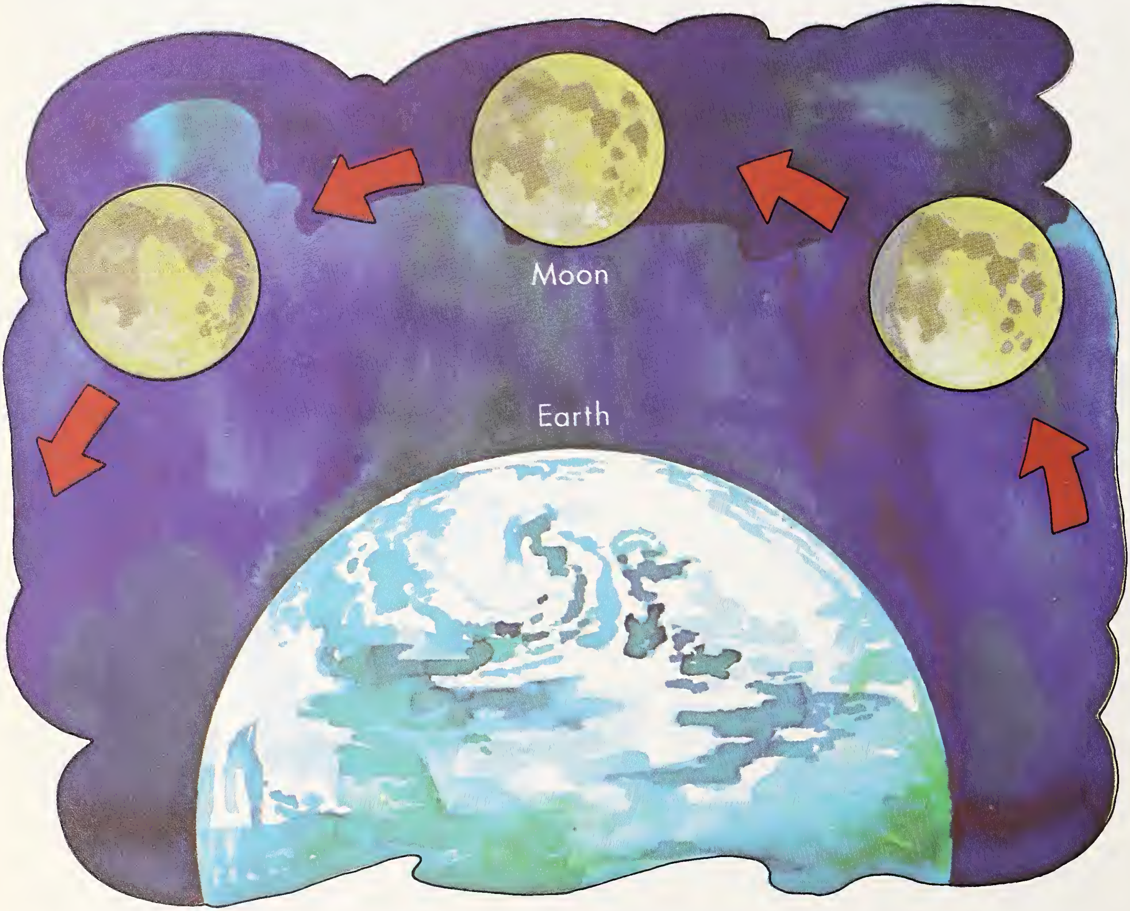
FINDING OUT

- Make a calendar.
- Draw the shape of the moon for today.
- Guess the shape of the moon for tomorrow.
  Did you guess right?



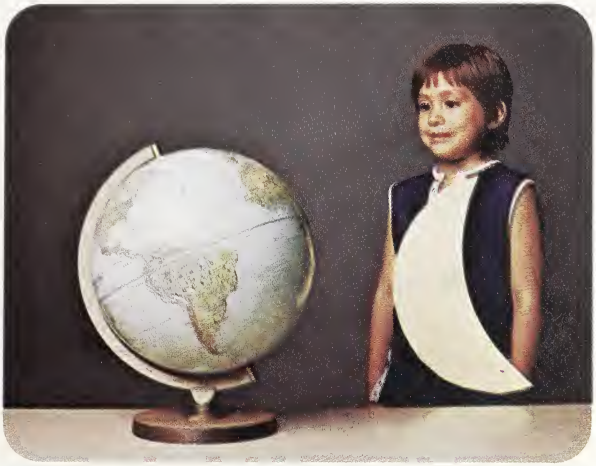
► Each day draw the shape
of the moon.
How does the moon change?
When does the moon look
the same as when you started?

Seeing one side of the moon

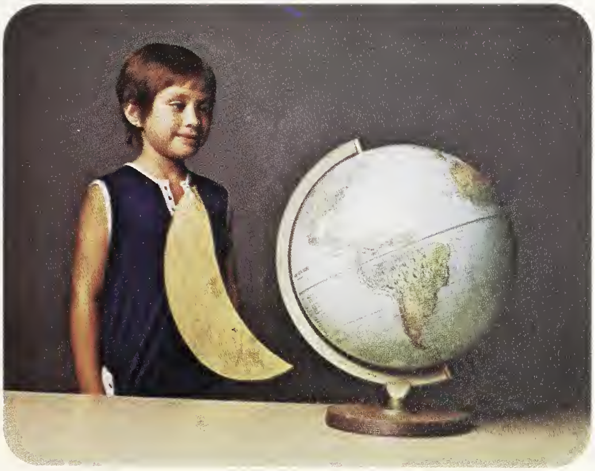


What do these pictures show about the moon?
How might you see the back of the moon?

FINDING OUT



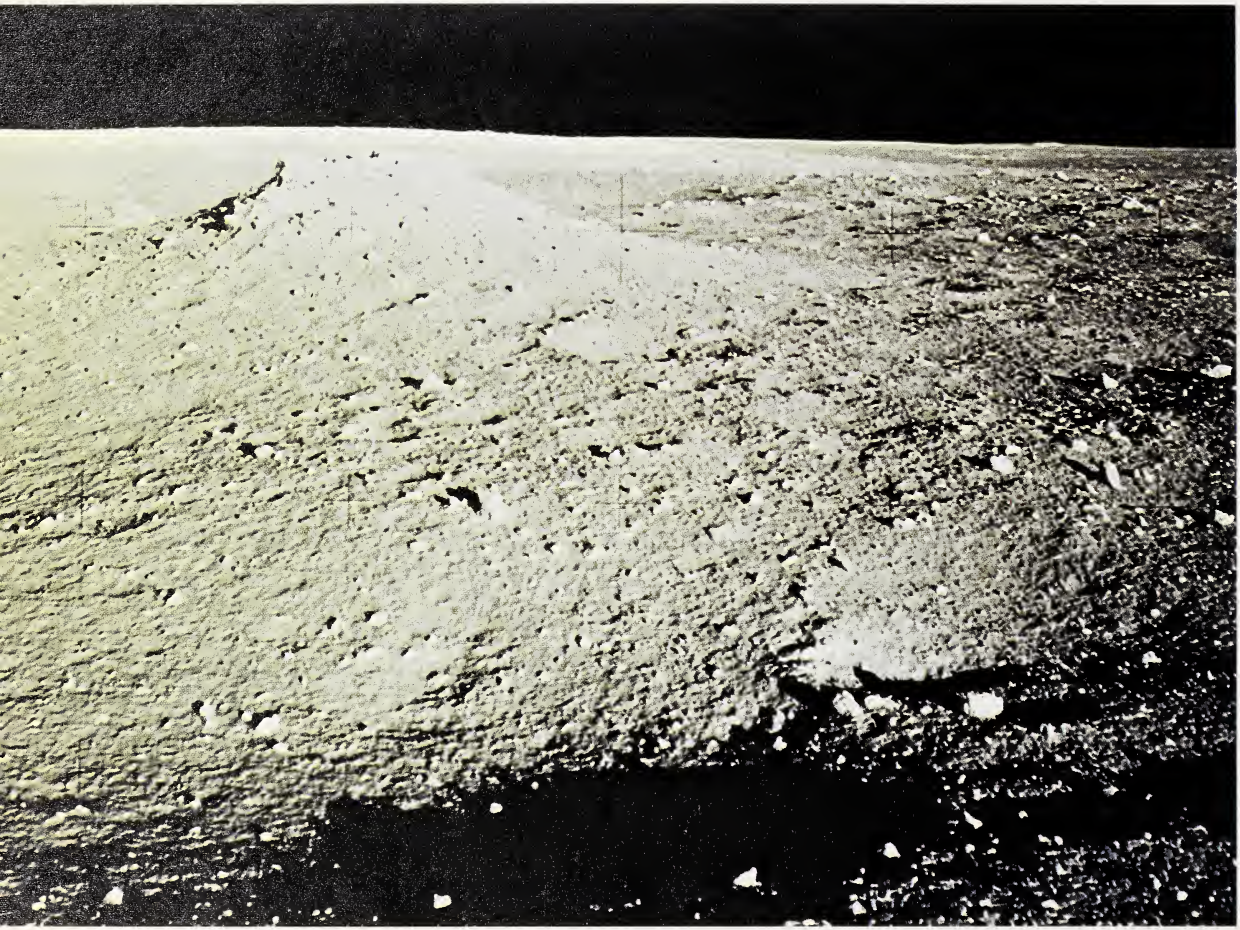
- Place a globe on a table.
- Face the globe. Make believe you are the moon.
- Walk around the globe so that you always face it.



How did you move?

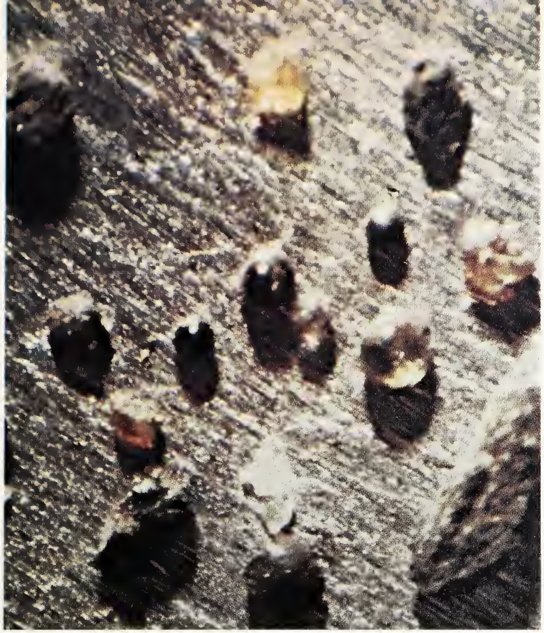
How does the moon turn so it always faces the earth?

The moon's surface

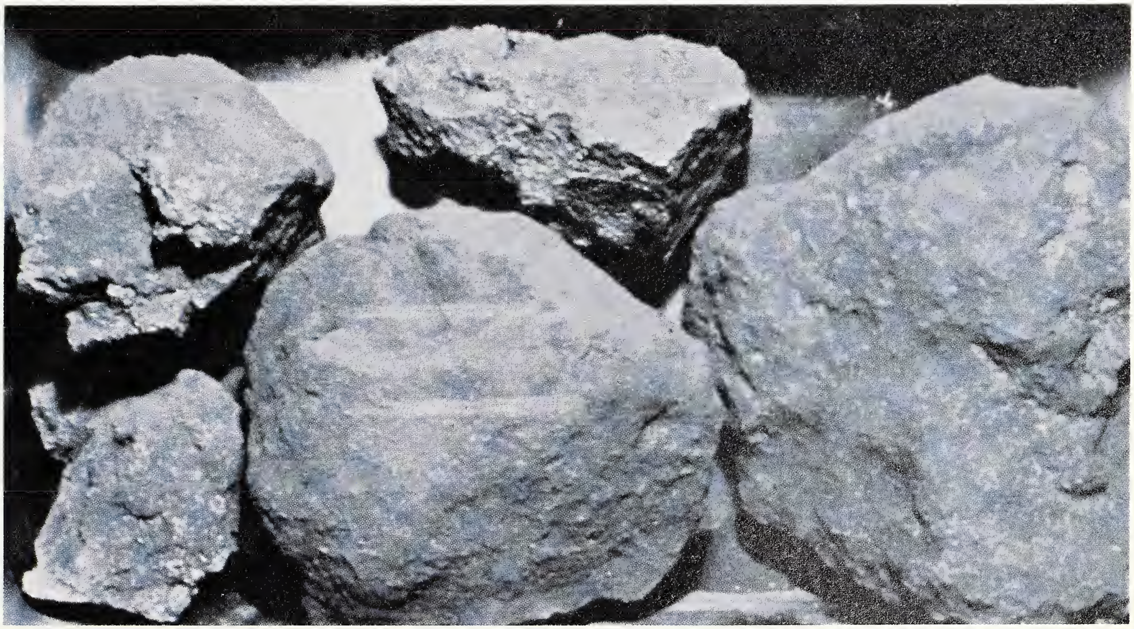


How does the ground on the moon look like the ground you walk on?

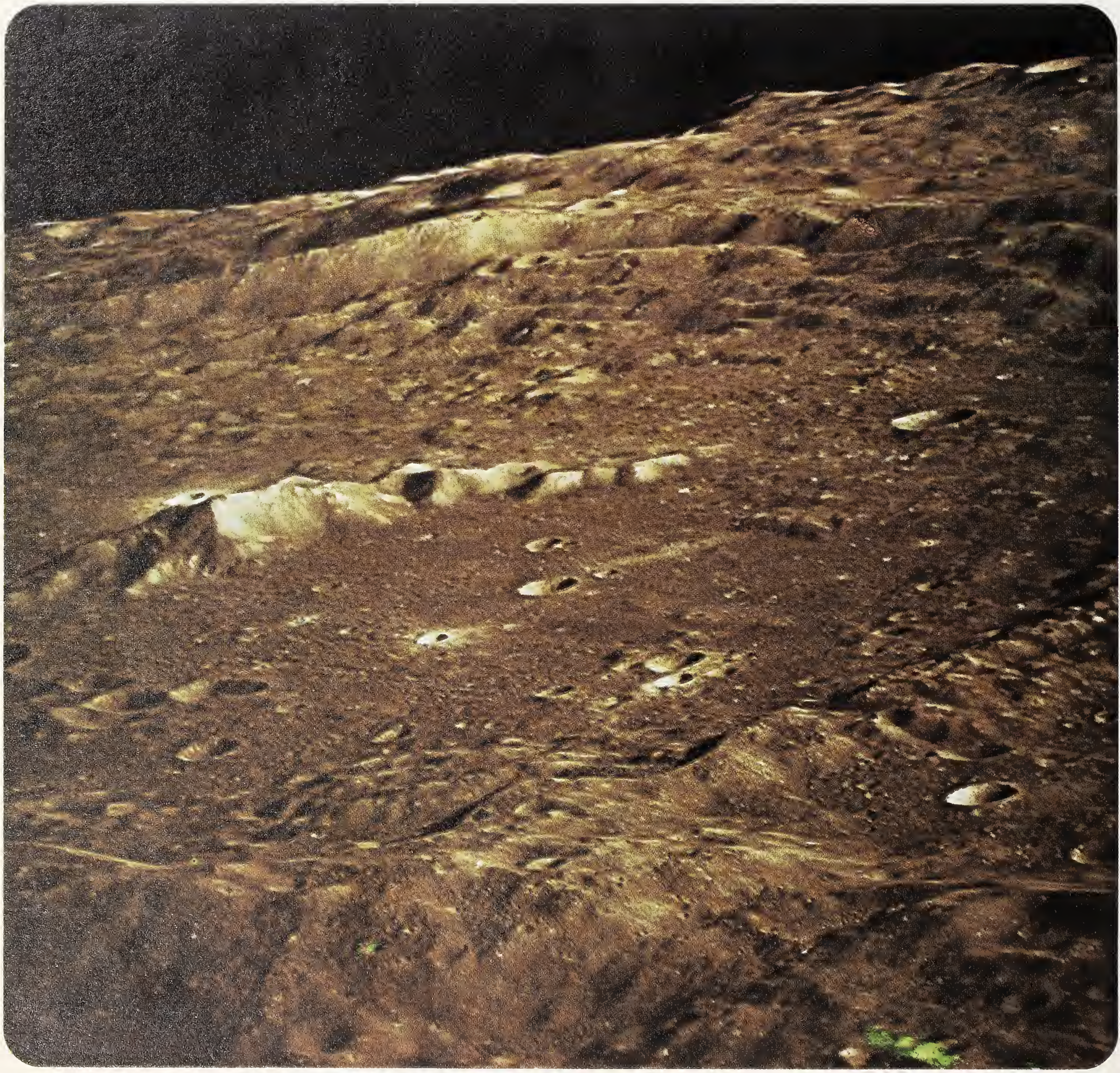
How does it look different?



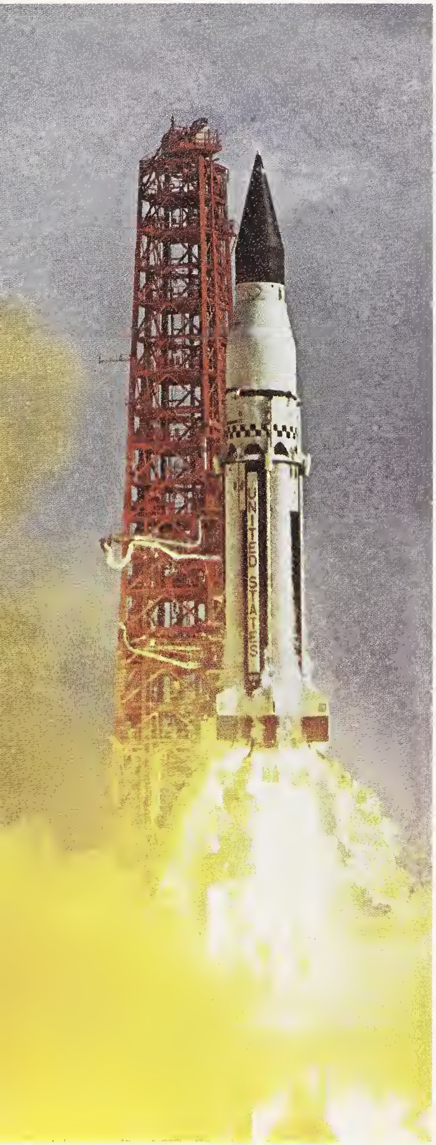
How do these moon rocks
look like rocks you have seen?
How do they look different?



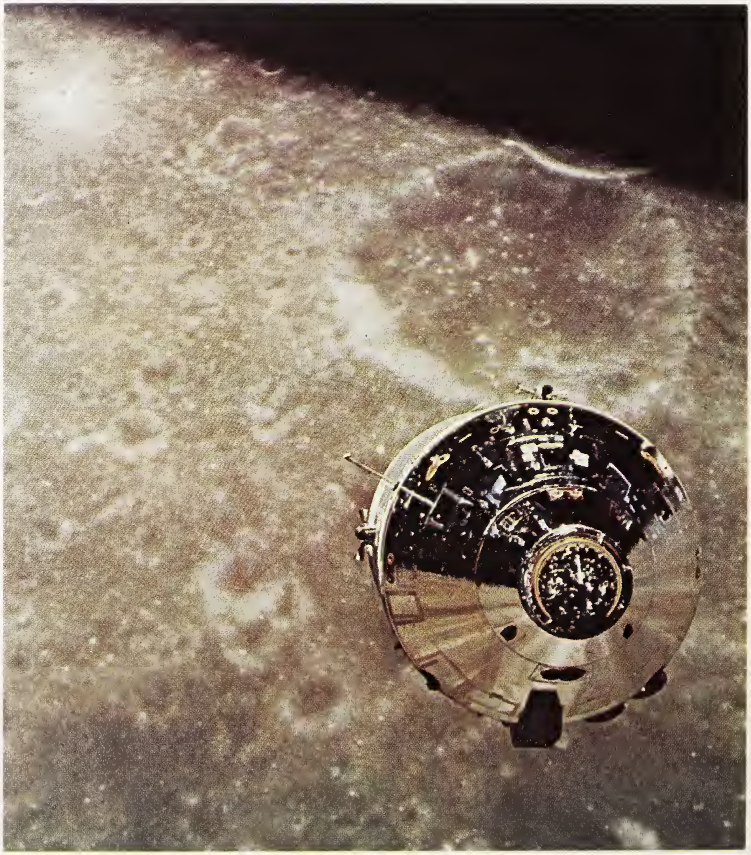
The moon and the earth

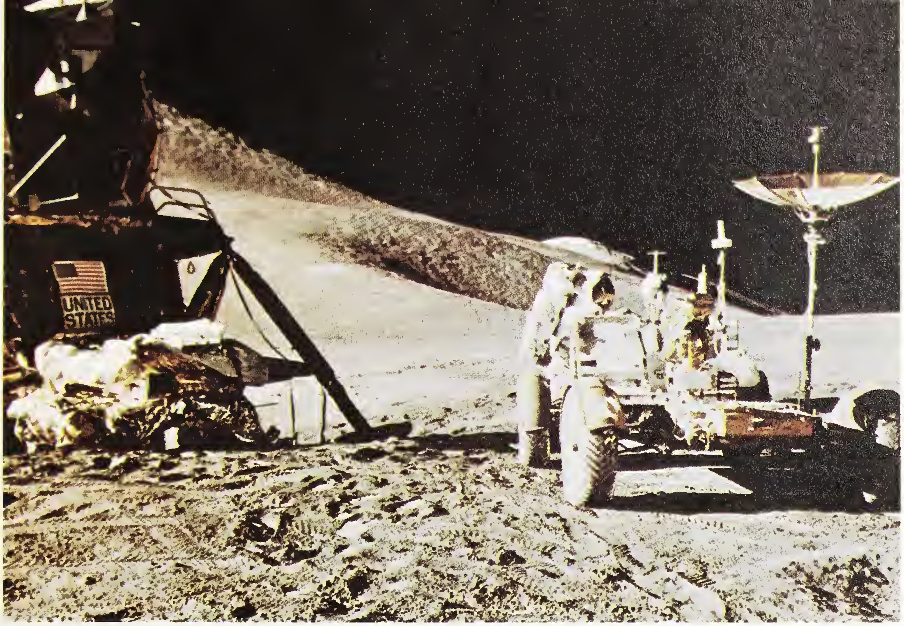


How are the moon
and the earth different?
Do you think things
could live on the moon?
Why or why not?



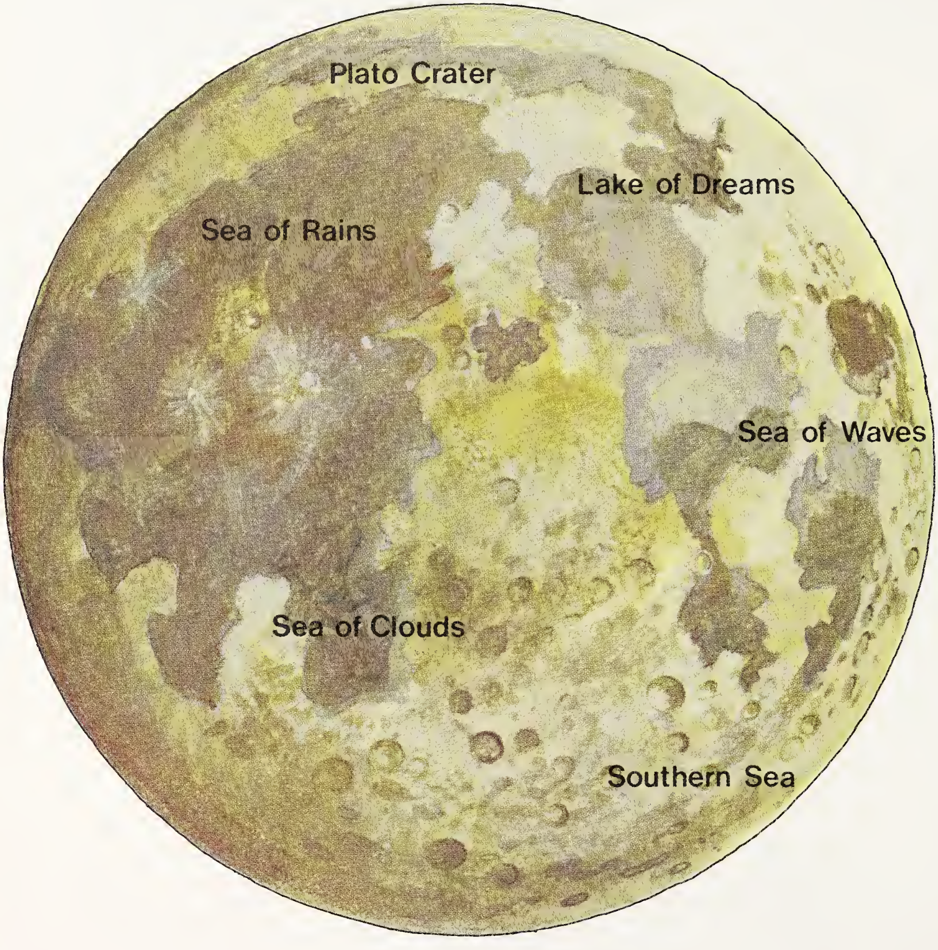
People on the moon

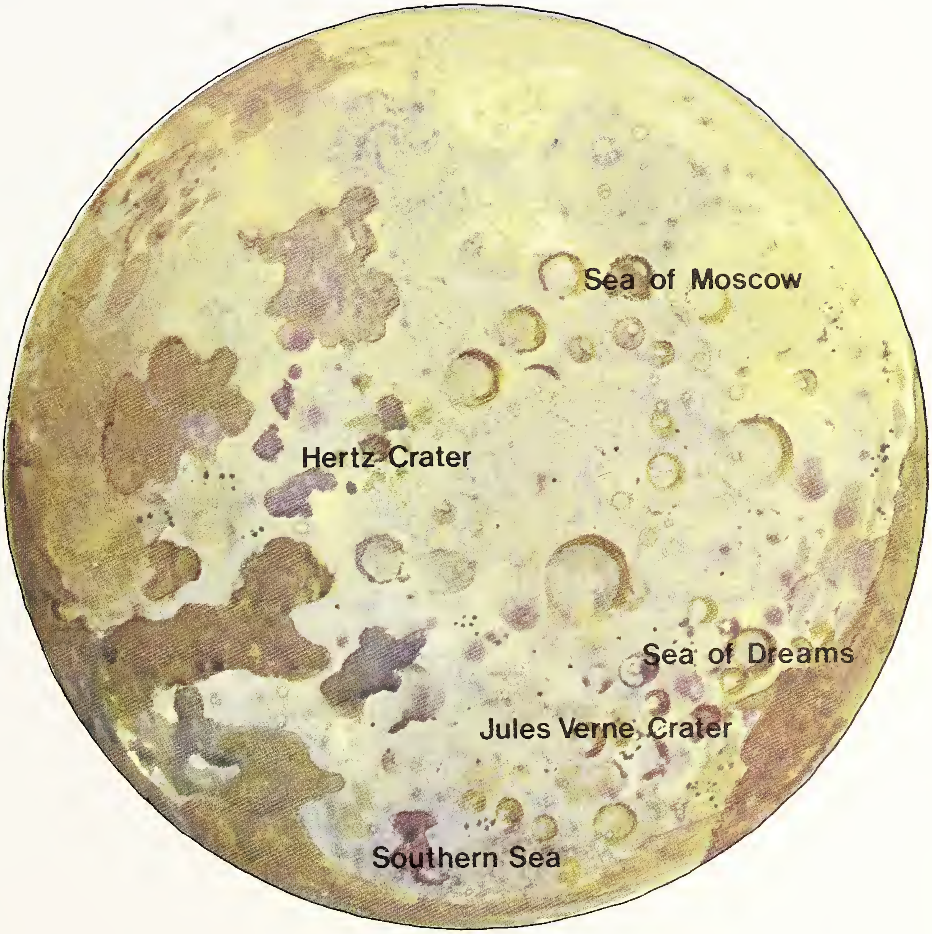




How do people
get to the moon?
How do people
stay alive on the moon?
Would you like to go
to the moon? Why?

Maps of the moon

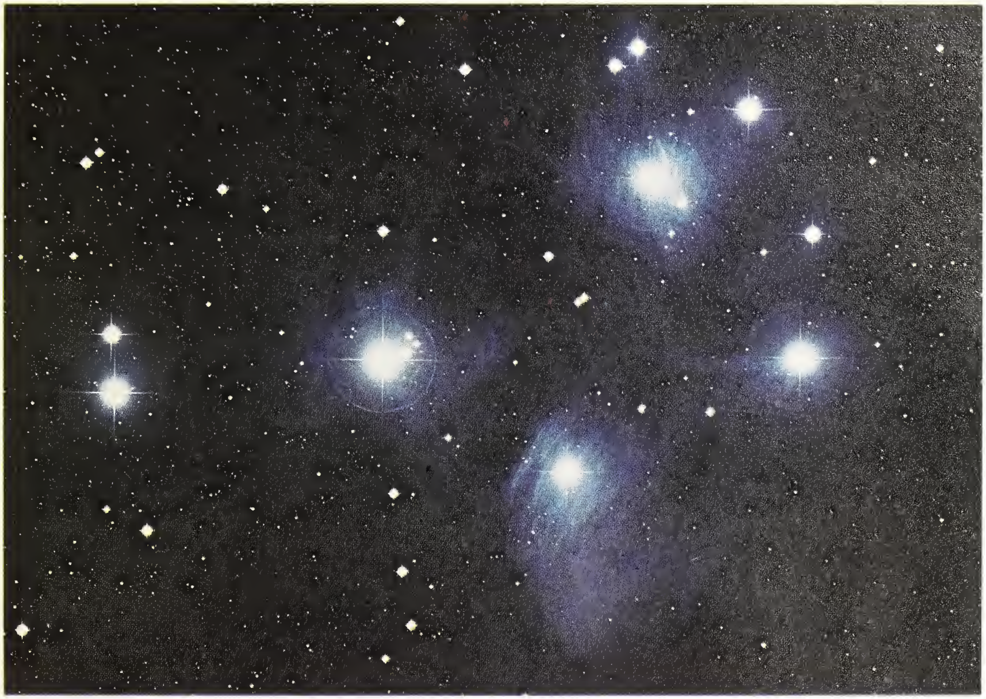




What do these maps show?

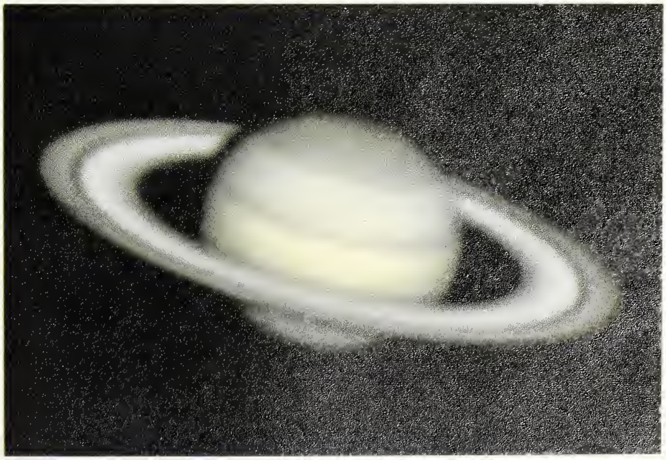
Why do people make maps of the moon?

Other things in space



What things in space do these pictures show?

What are some other things in space?



FINDING OUT

► Find pictures in magazines or newspapers about things in space.

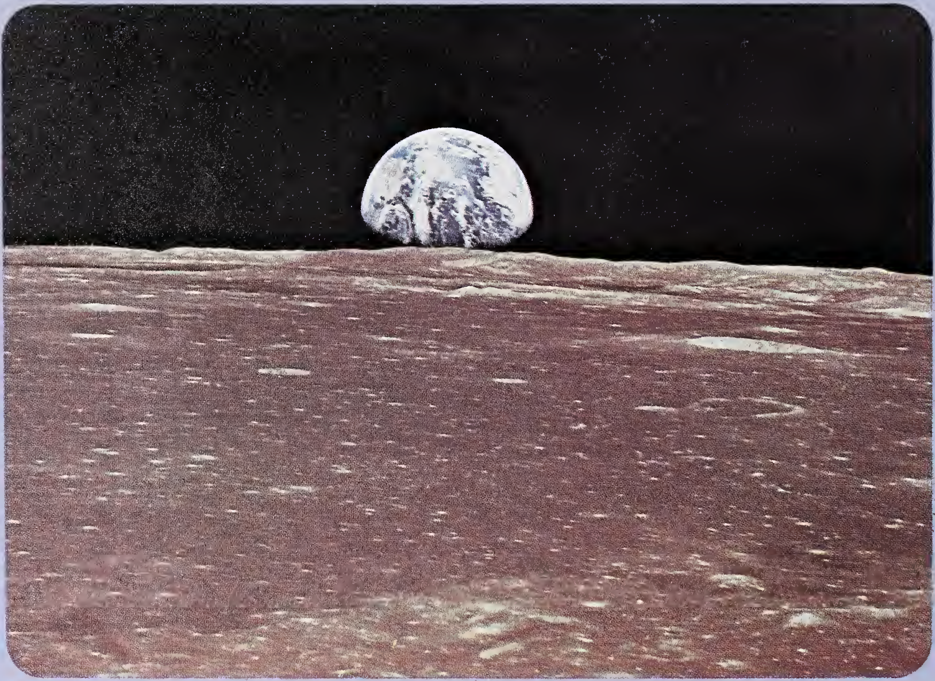
► Draw pictures of other things in space.

What did you learn about different things in space?

Words to Know

moon
daytime
earth
nighttime
change
space

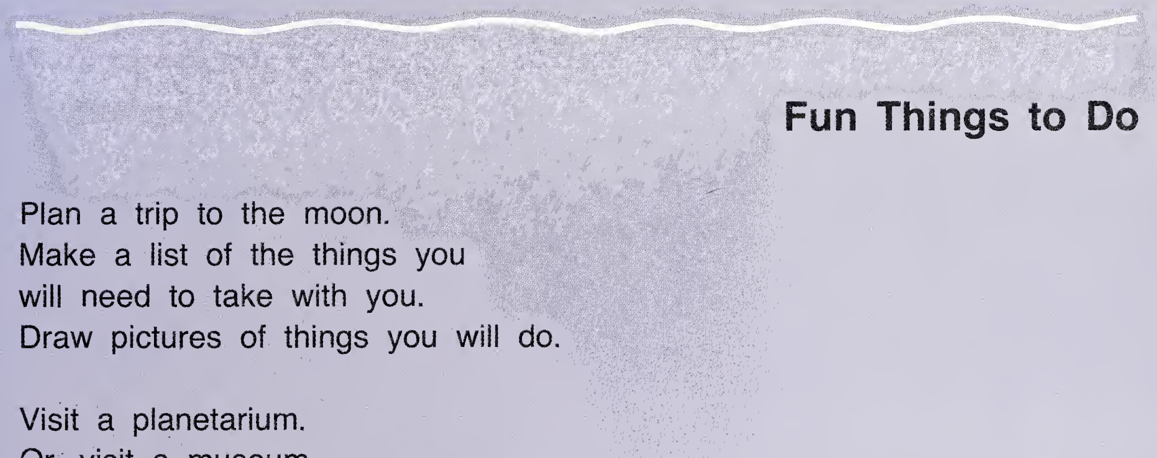
Picture to Think About



What is happening in this picture?

Questions to Answer

1. Where does moonlight come from?
2. Why can the moon be seen in different places?
3. Why does the moon seem to change shape?

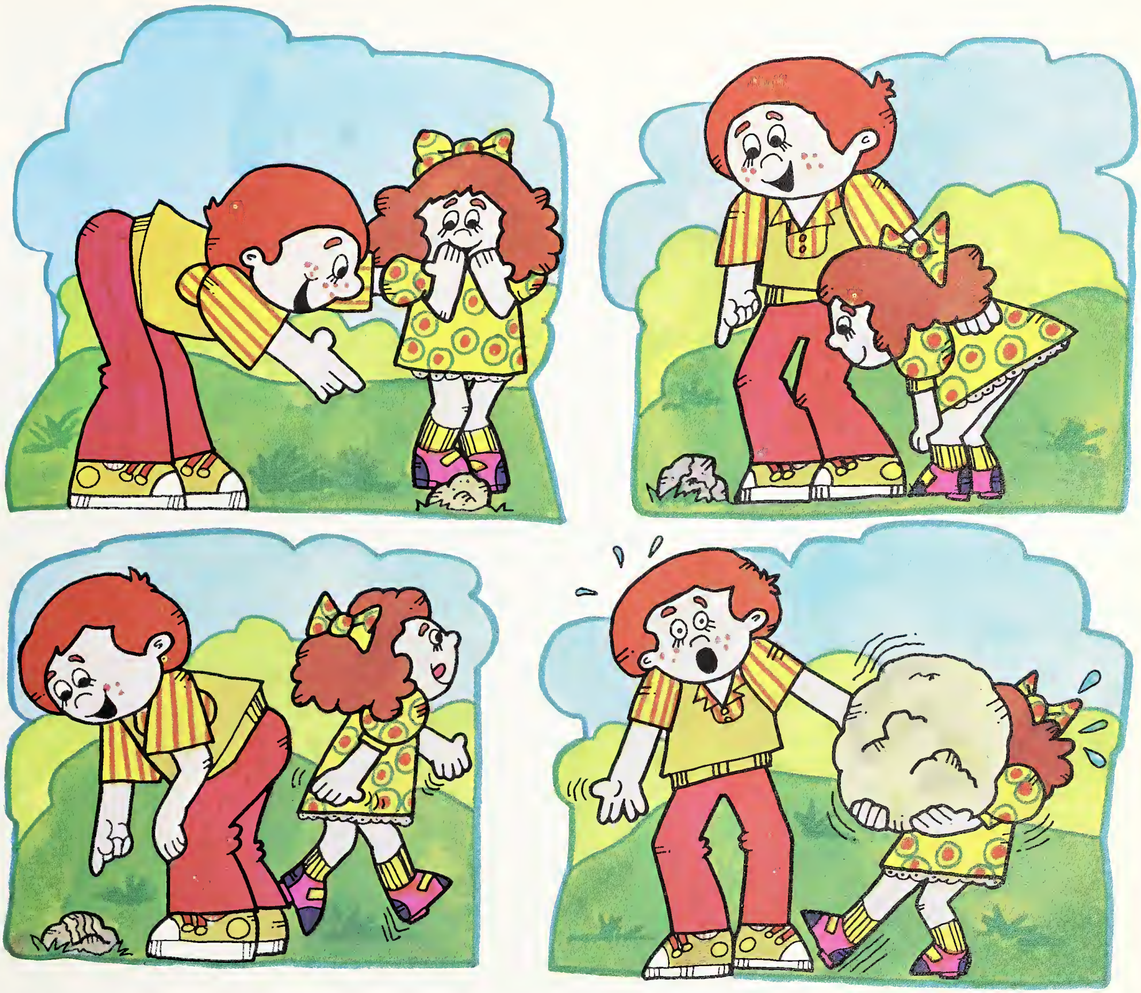


Fun Things to Do

Plan a trip to the moon.
Make a list of the things you
will need to take with you.
Draw pictures of things you will do.

Visit a planetarium.
Or, visit a museum.
Find out more about the moon
and other things in space.

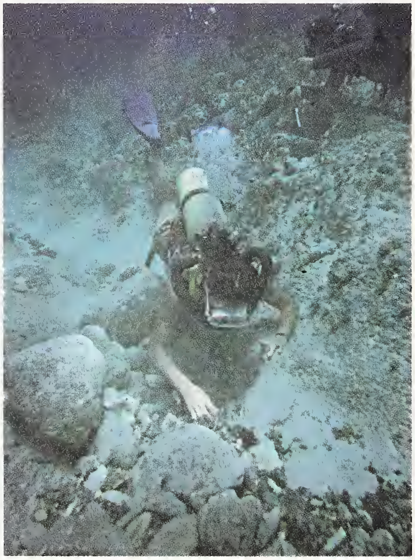
6 Rocks and Soil



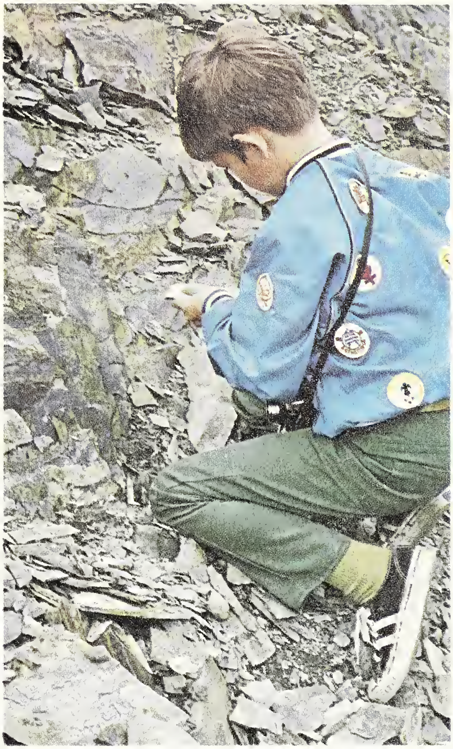
Do you think Jenny learned
what a rock is? Why?

What do you know about rocks?

Finding rock



Rocks are found in many places.
Where have you found rocks?



FINDING OUT

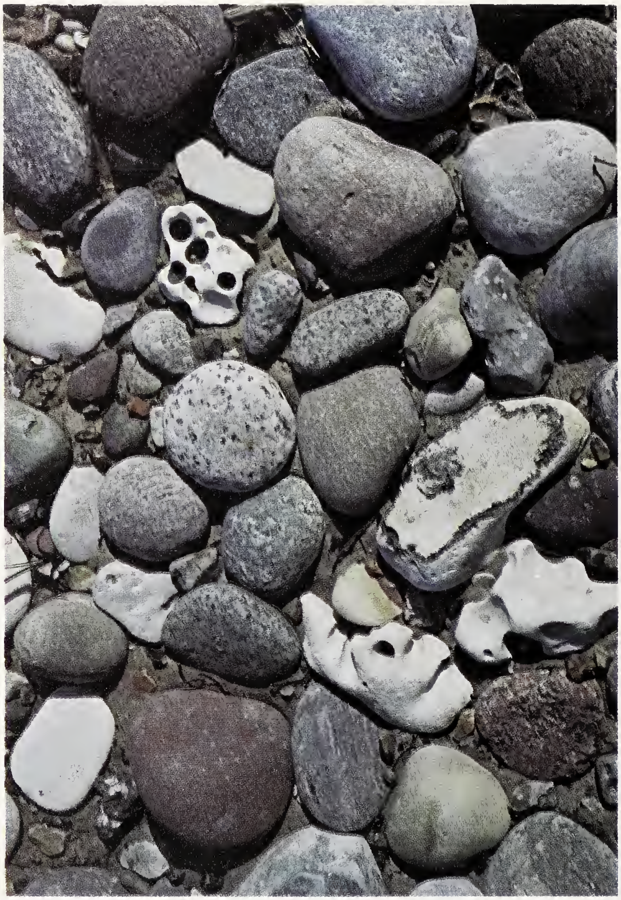
- Draw some pictures of places near you where you might find rocks.

- Get some rocks from each place.

► Put each rock by the picture
of the place where you found it.

What did you find out
about the rocks from each place?
Save your rocks for later.

How rocks are different



In what ways do these rocks look different from one another?

How else might they be different?

FINDING OUT

- Look at each rock you found before.

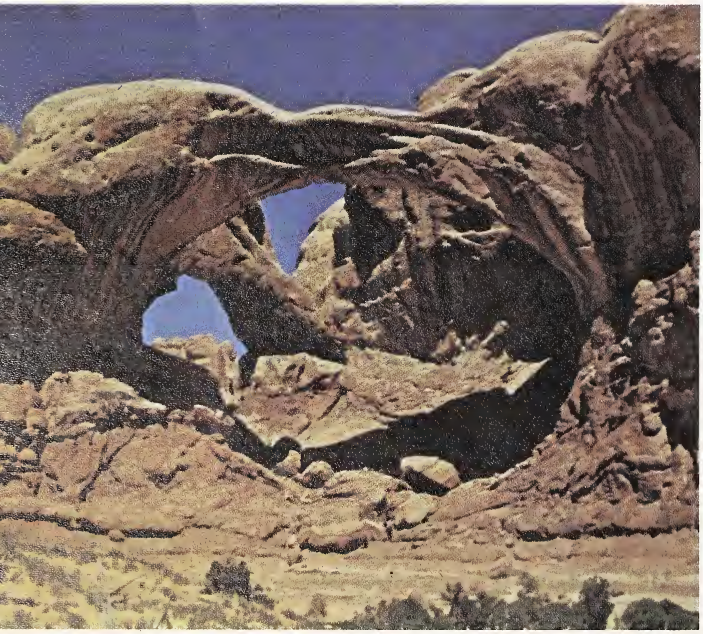
- Put the rocks that are most alike in groups.

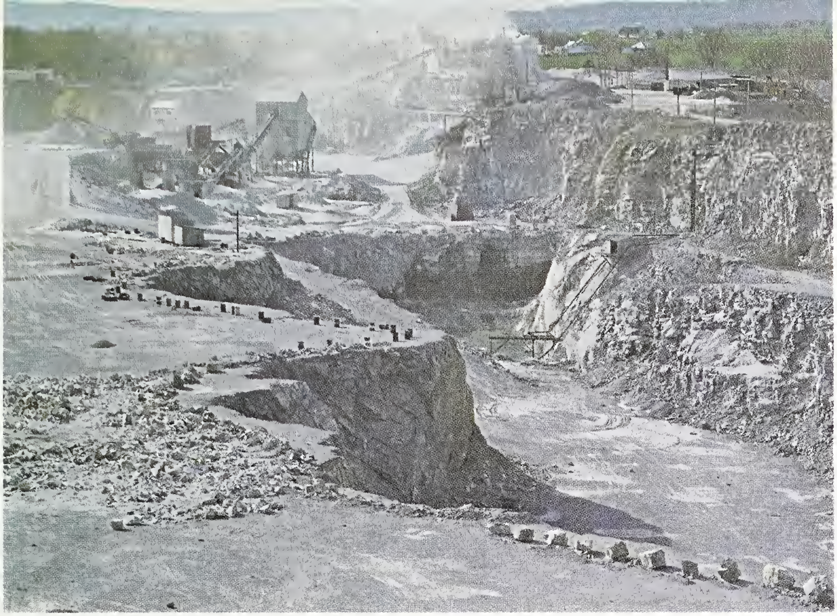
How are the rocks in each group different from those in the other groups?

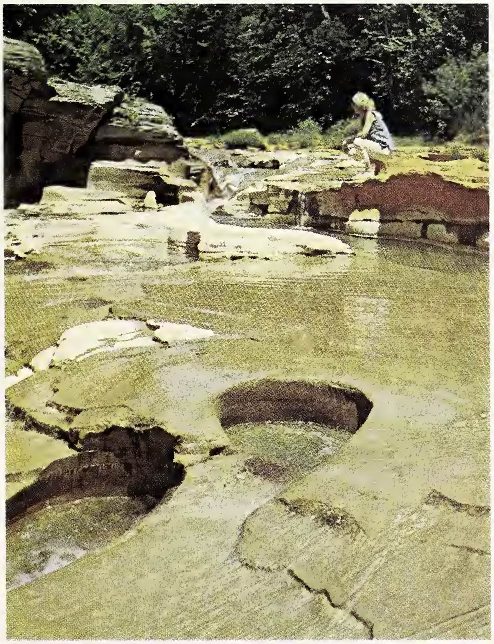
Changes in rocks

The wind took a long time to change the rocks in the picture below.

Why?







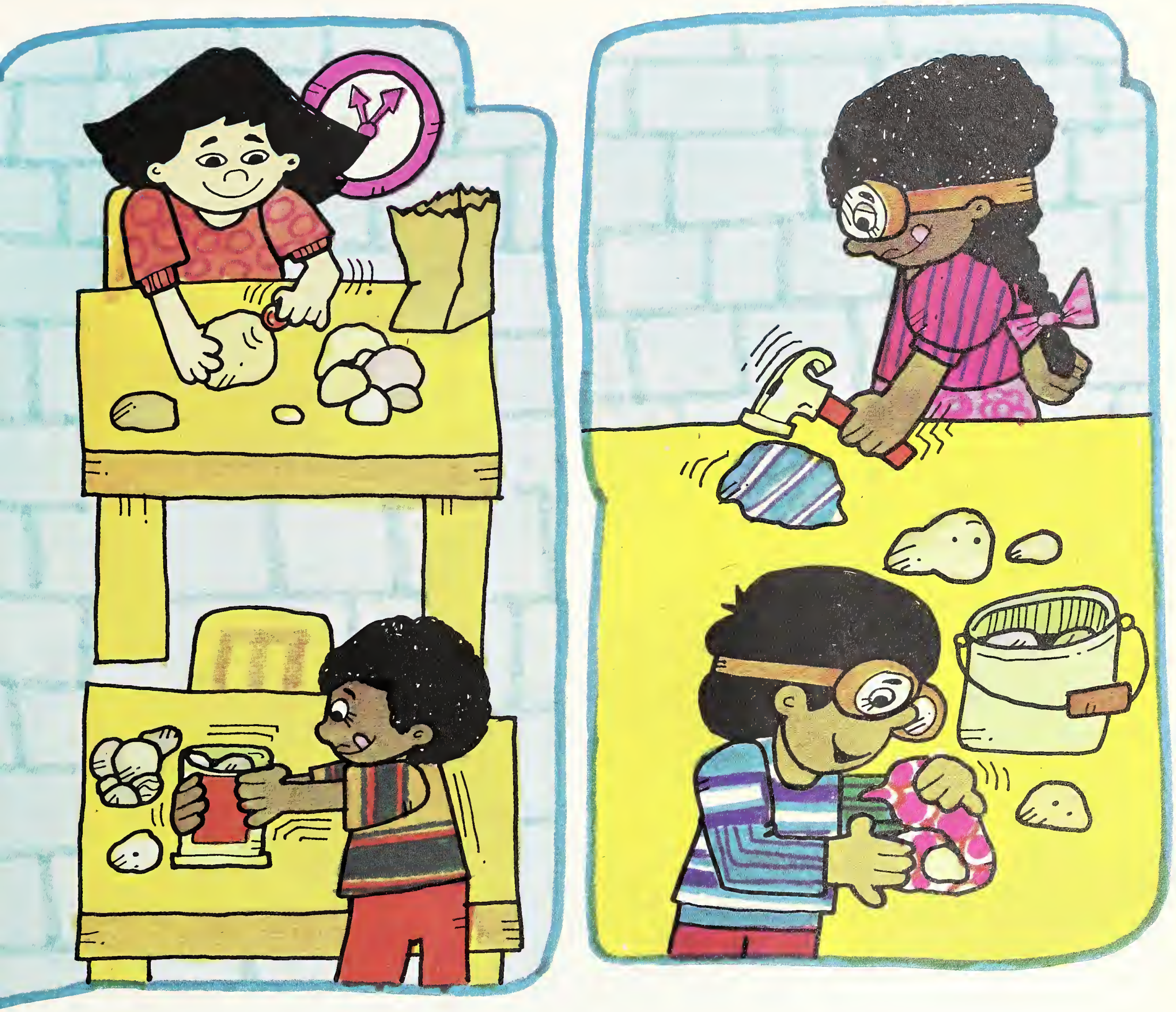
What changed the rocks
in these pictures?

Do you think it took a long time
to change these rocks? Why?

FINDING OUT

►Find some rocks that are not alike.

►Try to change each rock in many ways.



Which rocks were easier to change? Why?

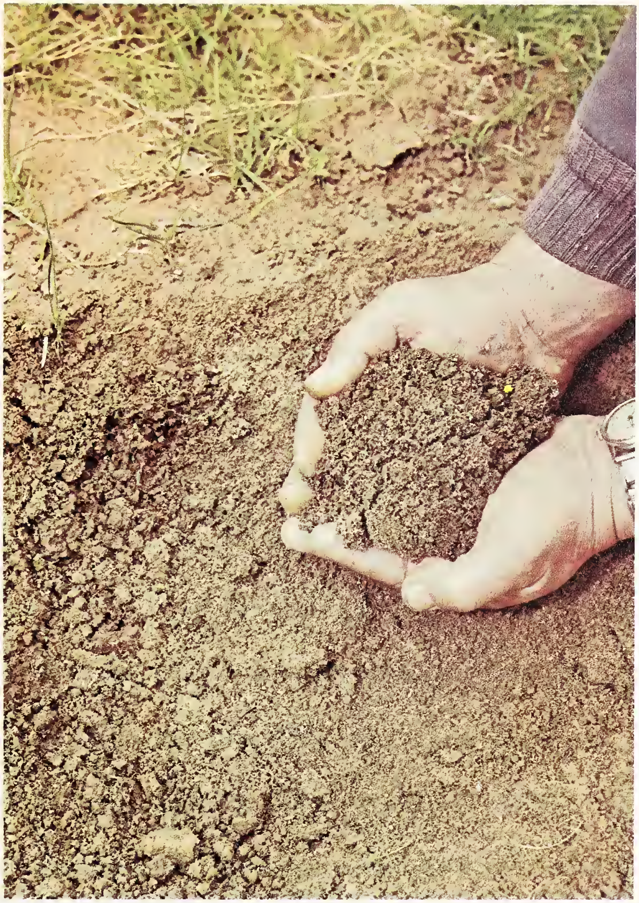
Which rocks were harder to change? Why?

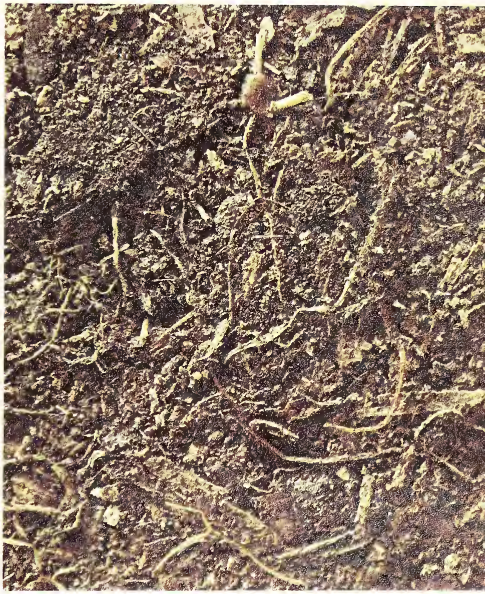
Using rocks

In what ways are these rocks being used?

What are some other ways rocks may be used?

What soil is made of





What things make up the soil in these pictures?

FINDING OUT

► Find some soil.

- Put some of the soil into a jar.
- Put some water into the jar.

- Stir the water and soil.
- Watch the soil for a few minutes.

How are the parts of the soil different?

Finding soil

Point to the soil in these pictures. Where else might soil be found?

FINDING OUT

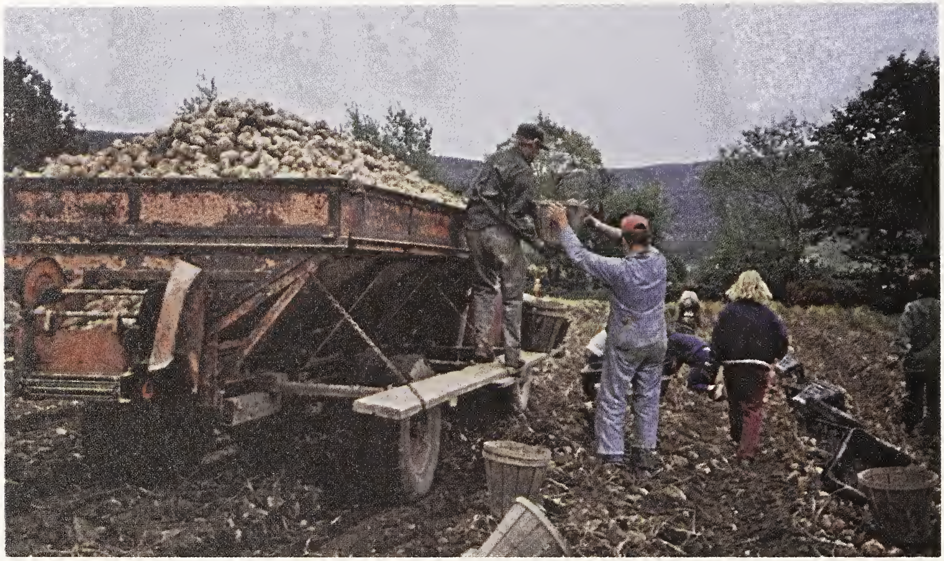
► Find some soil from different places.

► Find out about the soil in many ways.

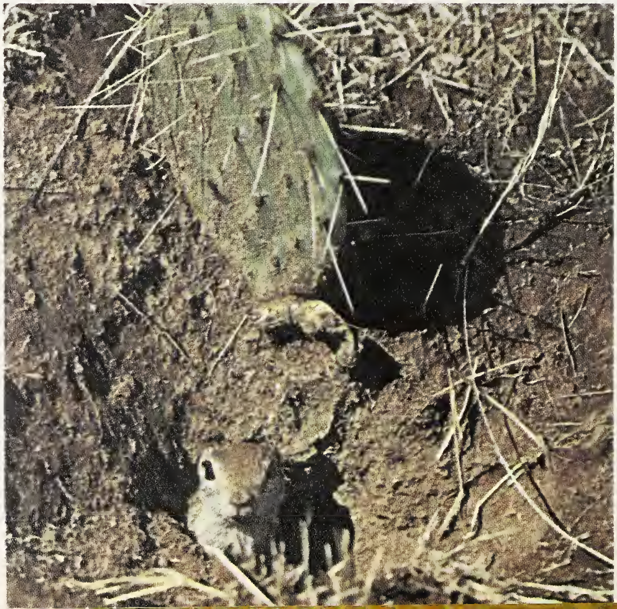
How is the soil from each place the same?

How is the soil different?

Soil and living things



In what ways is soil helping these living things?



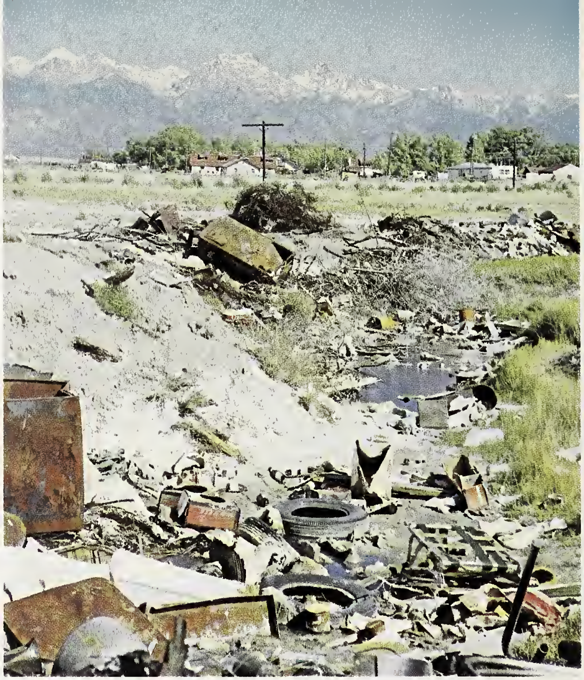
FINDING OUT

- Plant some seeds
  in many kinds of soil.

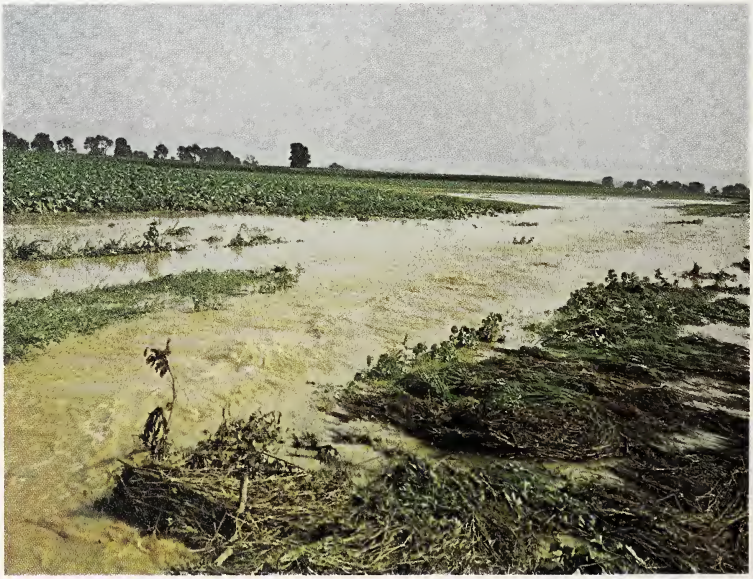
- Give your growing seeds
  the same amount of water and light.

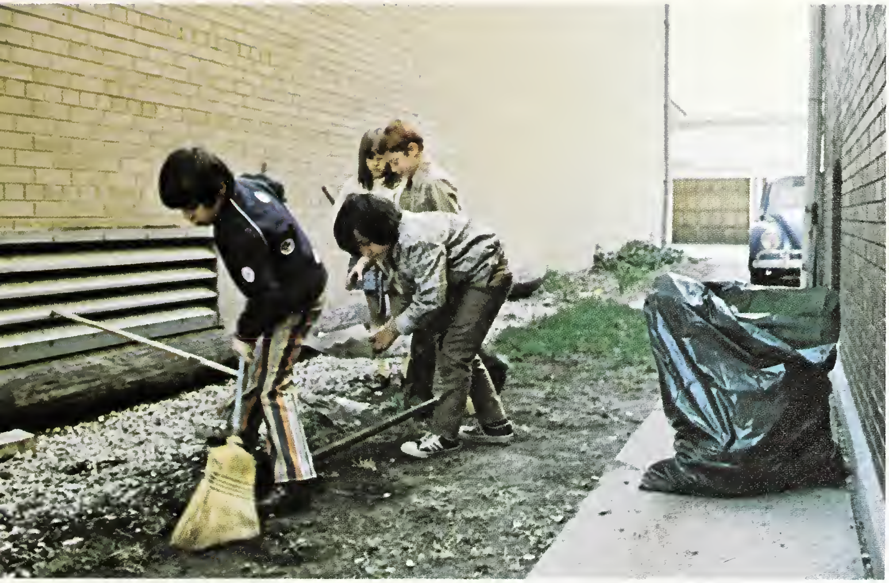
Does one kind of soil
help your plants grow best?
If so, which kind?

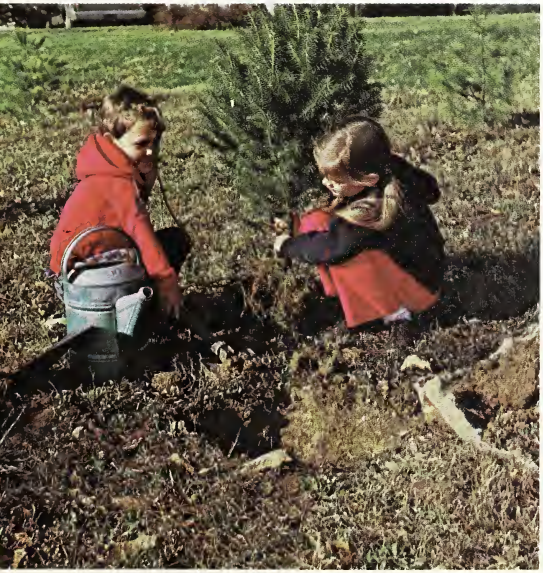
Taking care of soil



These pictures show
some things that are bad for soil.
What are these things?







How are these people helping soil?

What can you do to help soil?

FINDING OUT

► Find some dry soil.

- Fan the dry soil to show how wind can be bad for it.

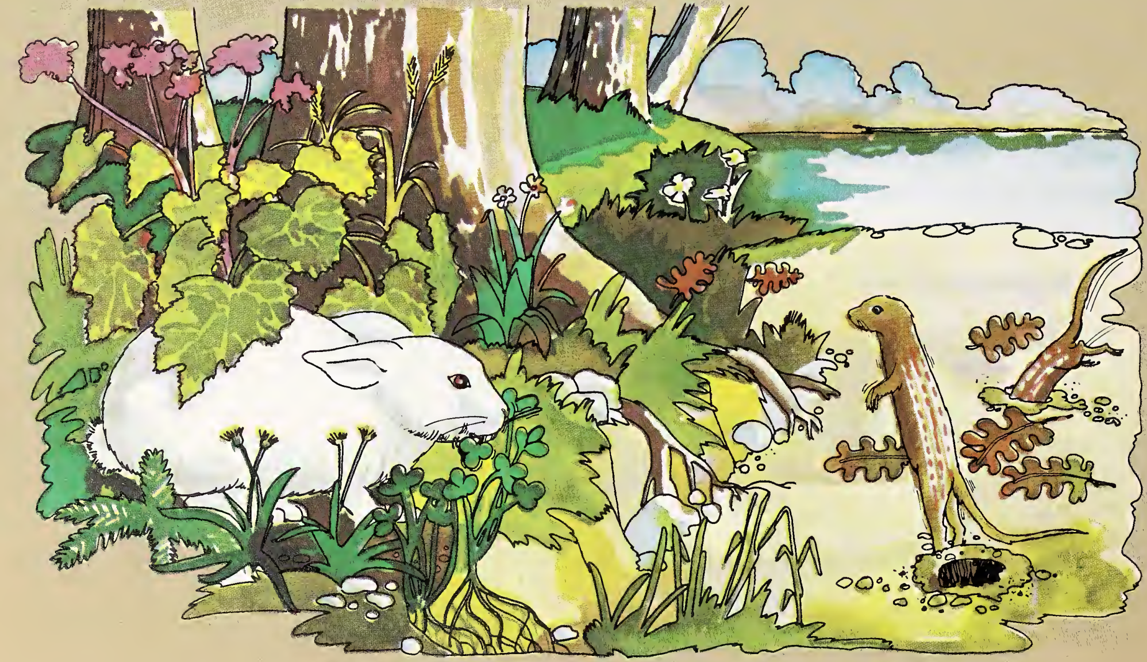
- Show how water can be bad for soil.

What might happen to living things when soil is blown or washed away?

Words to Know

water
rocks
change
wind
soil
plants
seeds
light

Picture to Think About



How is soil important to the living things in this picture?

Questions to Answer

1. Where are some places that rocks may be found?
2. What are some ways rocks are used?
3. Where are some places that soil may be found?
4. What are some ways soil helps living things?
5. What are some ways people can help soil?

Fun Things to Do

Draw or find pictures
of soil and rocks being used.

Look around your home or school
for soil that needs help.
Try to help the soil.

Some Science Words to Know

Unit 1 Food for Animals and You

animals, 8, 9, 11–13, 15, 16, 18, 19, 25, 27
farm, 29
food, 8, 9, 11, 13, 15, 16, 18–21, 23, 25–28
food chain, 17, 29
nature, 17
plants, 12, 13, 23, 26

Unit 2 Environment

air, 51
animals, 42, 43, 61
environment, 35–37, 39, 40, 42, 43, 52, 55, 56, 58, 59, 61
food, 51
light, 47
people, 39, 40
plants, 43, 56, 58, 59
sound, 47–49
water, 51
weather, 52, 53

Unit 3 Measuring

centimetres, 74–77
decimetres, 78–81
length, 71–73
measure, 67, 71–85, 87, 91
measuring, 71, 74, 89
metres, 82–85

Unit 4 Magnets

iron, 101, 108, 111, 123, 125
magnet, 99, 101–111, 113–121, 122, 123, 125
pulling, 112
pushing, 121
strong, 107, 109–111

Unit 5 The Moon

change, 139, 143
daytime, 132
earth, 140, 141, 145, 149
moon, 130–135, 137, 139–147, 149, 151, 153
nighttime, 132
space, 155–157

Unit 6 Rocks and Soil

change, 168–171
light, 183
plants, 183
rocks, 163–171, 173
seeds, 183
soil, 175–177, 179–187
water, 177, 183, 187
wind, 168, 187

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